



Project FINGERPAINT

DDD-1.0

## Detailed Design Document

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Package

**nl.tue.fingerpaint.client**

# nl.tue.fingerpaint.client

## Class Fingerpaint

java.lang.Object

↳ nl.tue.fingerpaint.client.Fingerpaint

### All Implemented Interfaces:

com.google.gwt.core.client.EntryPoint

```
public class Fingerpaint
extends java.lang.Object
implements com.google.gwt.core.client.EntryPoint
```

This is the entry point of the Fingerpaint application.

## Field Summary

protected	<a href="#">as</a> Class to keep track of everything the user has selected
public static final	<a href="#">CANVAS_RESIZE_INTERVAL</a> Time to wait before actually resizing the canvas. Value: <b>20</b>
public static final	<a href="#">CANVAS_RESIZE_STOP_AFTER_IDLE</a> Number of times the canvas resize timer will run before stopping itself when no resize events occur. Value: <b>10</b>
protected	<a href="#">graphVisualisator</a> Holds the mixingPerformance of the last run.
protected	<a href="#">lastSaveButtonClicked</a> String to determine the save button (either distribution, results or protocol) that was clicked last.
protected	<a href="#">timer</a> Timer to execute on resize.

## Constructor Summary

public	<a href="#">Fingerpaint()</a>
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## Method Summary

void	<a href="#">centerPopupPanels()</a> Center all currently visible PopupPanels both horizontally and vertically in the screen.
void	<a href="#">createGraph</a> (com.google.gwt.user.client.ui.Panel panel, java.util.ArrayList names, java.util.ArrayList performance, com.google.gwt.user.client.rpc.AsyncCallback onLoad) Adds a linechart-graph of the performance to panel

void	<a href="#">createMixingWidgets()</a> Initialise the widgets for the mixing interface.
void	<a href="#">executeMixingRun</a> ( <a href="#">MixingProtocol</a> protocol, int nrSteps, boolean mixingRun) Saves the initial distribution.
void	<a href="#">exportGraph</a> (boolean multiple) Save the currently shown graph to disk in svg format.
int	<a href="#">getCursorSize()</a> this method is used to acquire the size of the current cursor in pixels
<a href="#">GraphVisualisator</a>	<a href="#">getGraphVisualisator()</a> Returns the graph visualisator that holds the mixing performance of the last run.
java.lang.String	<a href="#">getLastClicked()</a> Returns the String that describes which save button has been clicked last.
void	<a href="#">loadMenu()</a> Build and show the main menu.
void	<a href="#">onModuleLoad()</a> This is the entry point method.
void	<a href="#">resetProtocol()</a> resets the current protocol and the protocol widgets
int	<a href="#">save</a> (java.lang.String name, boolean canOverwrite) Saves the current protocol, distribution or mixing results, depending on which save-button was pressed last.
void	<a href="#">setLastClicked</a> (java.lang.String lastClicked) Sets the String that describes which save button has been clicked last.
void	<a href="#">setLoadingPanelMessage</a> (java.lang.String message) Change the message that is displayed in the load panel below the loading animation.
void	<a href="#">setLoadingPanelVisible</a> (boolean visible) Show or hide an overlay with a loading animation in the centre.
void	<a href="#">showError</a> (java.lang.String message) Show a pop-up with given message that indicates an error has occurred.
void	<a href="#">showSavePanel()</a> Shows <a href="#">GuiState.saveItemPanel</a> and clears <a href="#">GuiState.saveNameTextBox</a> .

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.core.client.EntryPoint

onModuleLoad

**Fields**

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## CANVAS\_RESIZE\_INTERVAL

```
public static final int CANVAS_RESIZE_INTERVAL
```

Time to wait before actually resizing the canvas. In the mean, all new requests to resize the canvas are ignored. Basically, resize events are queued and batch processed.  
Constant value: **20**

---

## CANVAS\_RESIZE\_STOP\_AFTER\_IDLE

```
public static final int CANVAS_RESIZE_STOP_AFTER_IDLE
```

Number of times the canvas resize timer will run before stopping itself when no resize events occur.  
Constant value: **10**

---

## as

```
protected nl.tue.fingerpaint.client.model.ApplicationState as
```

Class to keep track of everything the user has selected

---

## graphVisualisator

```
protected nl.tue.fingerpaint.client.gui.GraphVisualisator graphVisualisator
```

Holds the mixingPerformance of the last run.

---

## lastSaveButtonClicked

```
protected java.lang.String lastSaveButtonClicked
```

String to determine the save button (either distribution, results or protocol) that was clicked last.

---

## timer

```
protected com.google.gwt.user.client.Timer timer
```

Timer to execute on resize.

---

## Constructors

### Fingerpaint

```
public Fingerpaint()
```

## Methods

### onModuleLoad

```
public void onModuleLoad()
```

This is the entry point method.

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## centerPopupPanels

```
public void centerPopupPanels()
```

Center all currently visible `PopupPanels` both horizontally and vertically in the screen.

Also positions the notifications where they belong.

---

## getLastClicked

```
public java.lang.String getLastClicked()
```

Returns the `String` that describes which save button has been clicked last.

**Returns:**

the `String` that describes which save button has been clicked last.

---

## setLastClicked

```
public void setLastClicked(java.lang.String lastClicked)
```

Sets the `String` that describes which save button has been clicked last.

**Parameters:**

`lastClicked` - The new value that describes which save button has been clicked last.

---

## getGraphVisualisator

```
public GraphVisualisator getGraphVisualisator()
```

Returns the graph visualisator that holds the mixing performance of the last run.

**Returns:**

The graph visualisator that holds the mixing performance of the last run

---

## loadMenu

```
protected void loadMenu()
```

Build and show the main menu.

---

## showError

```
protected void showError(java.lang.String message)
```

Show a pop-up with given message that indicates an error has occurred.

**Parameters:**

`message` - A message that explains the error.

---

## exportGraph

```
public void exportGraph(boolean multiple)
```

Save the currently shown graph to disk in `svg` format.

**Parameters:**

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`multiple` - Indicates whether the single graph or the multiple graphs graph should be exported.

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## setLoadingPanelMessage

```
protected void setLoadingPanelMessage(java.lang.String message)
```

Change the message that is displayed in the load panel below the loading animation.

### Parameters:

`message` - The message to show below the animation. When null, the message will be deleted.

---

## getCursorSize

```
public int getCursorSize()
```

this method is used to acquire the size of the current cursor in pixels

### Returns:

`cursorSizeSpinner.getValue()`

---

## showSavePanel

```
public void showSavePanel()
```

Shows [GuiState.saveItemPanel](#) and clears [GuiState.saveNameTextBox](#). Also gives focus to the textbox.

---

## save

```
public int save(java.lang.String name,  
                boolean canOverwrite)
```

Saves the current protocol, distribution or mixing results, depending on which save-button was pressed last.

### Parameters:

`name` - Name of save "file".

`canOverwrite` - If we can overwrite an already-existing "file" with the given name or not.

### Returns:

- `SAVE_SUCCESSFUL` If saving was successful.
  - `NOT_INITIALISED_ERROR` If the local storage is not initialised.
  - `NAME_IN_USE_ERROR` If the name is already in use.
  - `QUOTA_EXCEEDED_ERROR` If the local storage is full.
  - `NONEXISTANT_KEY_ERROR` If the key does not exist.
  - `UNKNOWN_ERROR` If an error occurs, other than those above.
- 

## setLoadingPanelVisible

```
protected void setLoadingPanelVisible(boolean visible)
```

Show or hide an overlay with a loading animation in the centre. Making this panel visible will make it impossible for the user to give input.

When hiding the panel, the message will also be reset. Change it with [setLoadingPanelMessage\(String\)](#).

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**Parameters:**

visible - If the panel should be hidden or shown.

---

**createMixingWidgets**

```
public void createMixingWidgets()
```

Initialise the widgets for the mixing interface.

---

**createGraph**

```
public void createGraph(com.google.gwt.user.client.ui.Panel panel,  
    java.util.ArrayList names,  
    java.util.ArrayList performance,  
    com.google.gwt.user.client.rpc.AsyncCallback onLoad)
```

Adds a linechart-graph of the performance to panel

**Parameters:**

panel - The panel the chart will be added to

names - List of names of the different plots in the chart

performance - Values of the different plots

onLoad - Callback to execute when the image with the graph has been loaded and added to the page.

---

**resetProtocol**

```
public void resetProtocol()
```

resets the current protocol and the protocol widgets

---

**executeMixingRun**

```
public void executeMixingRun(MixingProtocol protocol,  
    int nrSteps,  
    boolean mixingRun)
```

Saves the initial distribution. Sends all current information about the protocol and the distribution to the server. Displays the results on screen.

**Parameters:**

protocol - The protocol that should be executed.

nrSteps - The number of times the protocol should be executed

mixingRun - true if a complete run is executed, false if this is only a single step.

---



## nl.tue.fingerpaint.client Class TimeoutRpcRequestBuilder

java.lang.Object

```

└-com.google.gwt.user.client.rpc.RpcRequestBuilder
  └-nl.tue.fingerpaint.client.TimeoutRpcRequestBuilder
  
```

```

public class TimeoutRpcRequestBuilder
extends com.google.gwt.user.client.rpc.RpcRequestBuilder
  
```

Class that creates a `com.google.gwt.user.client.rpc.ServiceDefTarget` class class of your choice that fails after a given amount of time before the request returns.

### Field Summary

public static final	<a href="#">DEFAULT_TIMEOUT</a> The default timeout for a request. Value: <b>60000</b>
---------------------	--

#### Fields inherited from class com.google.gwt.user.client.rpc.RpcRequestBuilder

CONTENT\_TYPE\_HEADER, MODULE\_BASE\_HEADER, STRONG\_NAME\_HEADER

### Constructor Summary

public	<a href="#">TimeoutRpcRequestBuilder()</a> Constructs a TimeOutRpcRequestBuilder object with the default timeout.
public	<a href="#">TimeoutRpcRequestBuilder(int timeoutMillis)</a> Constructs a TimeOutRpcRequestBuilder object.

### Method Summary

com.google.gwt.http.client.RequestBuilder	<a href="#">doCreate</a> (java.lang.String serviceEntryPoint)
int	<a href="#">getTimeoutMillis</a> () Returns the number of milliseconds after which the class fails.

#### Methods inherited from class com.google.gwt.user.client.rpc.RpcRequestBuilder

create, doCreate, doFinish, doSetCallback, doSetContentType, doSetRequestData, doSetRequestId, finish, setCallback, setContentType, setRequestData, setRequestId

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Fields

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## DEFAULT\_TIMEOUT

```
public static final int DEFAULT_TIMEOUT
```

The default timeout for a request.  
Constant value: **60000**

## Constructors

### TimeoutRpcRequestBuilder

```
public TimeoutRpcRequestBuilder()
```

Constructs a TimeOutRpcRequestBuilder object with the default timeout.

### TimeoutRpcRequestBuilder

```
public TimeoutRpcRequestBuilder(int timeoutMillis)
```

Constructs a TimeOutRpcRequestBuilder object.

**Parameters:**

timeoutMillis - The number of milliseconds after which the class fails

## Methods

### getTimeoutMillis

```
public int getTimeoutMillis()
```

Returns the number of milliseconds after which the class fails.

**Returns:**

The number of milliseconds after which the class fails

### doCreate

```
protected com.google.gwt.http.client.RequestBuilder doCreate(java.lang.String  
serviceEntryPoint)
```

---

Package

**nl.tue.fingerpaint.client.gui**

## nl.tue.fingerpaint.client.gui Class CustomTreeModel

java.lang.Object

└-nl.tue.fingerpaint.client.gui.CustomTreeModel

### All Implemented Interfaces:

com.google.gwt.view.client.TreeViewModel

```
public class CustomTreeModel
extends java.lang.Object
implements com.google.gwt.view.client.TreeViewModel
```

The model that defines the nodes in the `com.google.gwt.user.cellview.client.CellBrowser` that is used as a main menu.

## Constructor Summary

public	<a href="#">CustomTreeModel</a> ( <a href="#">Fingerpaint</a> parent, <a href="#">ApplicationState</a> appState) Construct a specific <code>com.google.gwt.view.client.TreeViewModel</code> that can be used in the <code>com.google.gwt.user.cellview.client.CellBrowser</code> of the Fingerpaint application.
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## Method Summary

com.google.gwt.view.client.TreeViewModel.NodeInfo	<a href="#">getNodeInfo</a> (java.lang.Object value) Get the <code>com.google.gwt.view.client.TreeViewModel.NodeInfo</code> that provides the children of the specified value.
boolean	<a href="#">isLeaf</a> (java.lang.Object value) Check if the specified value represents a leaf node.

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Methods inherited from interface com.google.gwt.view.client.TreeViewModel

getNodeInfo, isLeaf

## Constructors

### CustomTreeModel

```
public CustomTreeModel(Fingerpaint parent,
ApplicationState appState)
```

Construct a specific `com.google.gwt.view.client.TreeViewModel` that can be used in the `com.google.gwt.user.cellview.client.CellBrowser` of the Fingerpaint application.

#### Parameters:

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parent - A reference to the Fingerpaint class. Used to execute mixing protocols.

appState - Reference to the model that holds the state of the application.

## Methods

### getNodeInfo

```
public com.google.gwt.view.client.TreeViewModel.NodeInfo getNodeInfo(java.lang.Object value)
```

Get the `com.google.gwt.view.client.TreeViewModel.NodeInfo` that provides the children of the specified value.

---

### isLeaf

```
public boolean isLeaf(java.lang.Object value)
```

Check if the specified value represents a leaf node. Leaf nodes cannot be opened.

## nl.tue.fingerpaint.client.gui Class GraphVisualisator

java.lang.Object

└─nl.tue.fingerpaint.client.gui.GraphVisualisator

```
public class GraphVisualisator
extends java.lang.Object
```

Class for the creation of segregation graphs.

## How to call this class

Load the visualisation API, passing the onLoadCallback to be called when loading is done. This should be done as follows:

```
GraphVisualisator gv = new GraphVisualisator();
Runnable onLoad = gv.createGraph(...);
VisualizationUtils.loadVisualizationApi(onLoad, LineChart.PACKAGE);
```

## Constructor Summary

public	<a href="#">GraphVisualisator()</a>
--------	-------------------------------------

## Method Summary

void	<a href="#">clearSegregationResults()</a> Clears the list of with lists of segregation points
------	--

java.lang.Runnable	<a href="#">createGraph</a> (com.google.gwt.user.client.ui.Panel panel, java.util.ArrayList names, java.util.ArrayList performance, com.google.gwt.user.client.rpc.AsyncCallback onLoad, int height, int width) Returns the runnable object to initiate drawing the graph in Fingerpaint.createGraph()
--------------------	---

## Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### GraphVisualisator

```
public GraphVisualisator()
```

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## Methods

### createGraph

```
public java.lang.Runnable createGraph(com.google.gwt.user.client.ui.Panel panel,  
    java.util.ArrayList names,  
    java.util.ArrayList performance,  
    com.google.gwt.user.client.rpc.AsyncCallback onLoad,  
    int height,  
    int width)
```

Returns the runnable object to initiate drawing the graph in Fingerpaint.createGraph()

#### Parameters:

panel - The panel the graph will be added to  
names - List of names of the different plots in the chart  
performance - Values of the different plots  
onLoad - A callback to execute when the graph has been loaded.  
height - The height of the image to be drawn  
width - The width of the image to be drawn

#### Returns:

The runnable object to initiate drawing the graph

---

### clearSegregationResults

```
public void clearSegregationResults()
```

Clears the list of with lists of segregation points

## nl.tue.fingerpaint.client.gui Class GuiState

java.lang.Object

↳nl.tue.fingerpaint.client.gui.GuiState

```
public class GuiState
extends java.lang.Object
```

A class that contains references to all the GUI elements used in the Fingerpaint application. This class is used as an "element manager", for easy element referencing.

All widgets that can be initialised, must be initialised in this class.

### Field Summary

public static	<a href="#">backMenu1Button</a> Button that is used in the first menu level to go up one level.
public static	<a href="#">backMenu2Button</a> Button that is used in the second menu level to go up one level.
public static	<a href="#">backStopDefiningProtocol</a> Button that is used in the submenu with protocol related stuff to go back to the main menu.
public static	<a href="#">cancelCompareButton</a> Cancel button inside the compare performance pop-up.
public static	<a href="#">cancelSaveResultsButton</a> Cancel button inside the save pop-up menu.
public static	<a href="#">circleDrawingTool</a> Button to select the circle-shaped drawing tool.
public static	<a href="#">closeCompareButton</a> Close button inside the compare performance pop-up.
public static	<a href="#">closeLoadButton</a> Button to close the load pop-up menu.
public static	<a href="#">closeResultsButton</a> Button to close the remove results pop-up panel.
public static	<a href="#">closeSaveButton</a> Ok / Cancel button to close the save results or overwrite pop-up panel.
public static	<a href="#">closeSingleGraphViewButton</a> Button to close the performance pop-up.
public static	<a href="#">compareButton</a> Button to compare the performance of the selected mixing runs.
public static	<a href="#">compareGraphPanel</a> Simple panel that displays a graph with the mixing performance of the selected mixing runs.



public static	<a href="#">comparePerformanceButton</a> Button to compare the performance of previously saved mixing runs.
public static	<a href="#">comparePopupPanel</a> Pop-up panel that displays the simple panel with the performance graph and New Comparison and Close buttons.
public static	<a href="#">compareSelectPopupCellList</a> CellList that can be used to select multiple mixing runs from all available saved mixing runs.
public static	<a href="#">compareSelectPopupPanel</a> Pop-up panel to display all the previously stored mixing runs with performance.
public static	<a href="#">cursorSizeSpinner</a> Numberspinner to change the size of the drawing tool.
public static final	<a href="#">DEFAULT_TIMEOUT</a> Stores how long in milliseconds a SAVE_SUCCESS_MESSAGE should be shown in a NotificationPanel. Value: <b>2000</b>
public static	<a href="#">distributionsButton</a> Button to enter the submenu with distribution related actions.
public static	<a href="#">distributionsLabel</a> Label to be displayed above the distributions related submenu.
public static	<a href="#">drawingToolLabel</a> Label to be displayed above the drawing tool related submenu.
public static	<a href="#">exportDistributionButton</a> Button to export the image of the current distribution.
public static	<a href="#">exportMultipleGraphButton</a> Button to export the image of multiple mixing performances.
public static	<a href="#">exportSingleGraphButton</a> Button to export the image of the current mixing performance.
public static	<a href="#">initDistFlexTable</a> Flextable to hold all the protocol entries.
public static	<a href="#">labelProtocolLabel</a> Label to be displayed above the protocol-related buttons, to explain their purpose.
public static	<a href="#">labelProtocolRepresentation</a> Label that shows the textual representation of the current mixing protocol.
public static	<a href="#">listScrollPanel</a> Scroll panel to hold the lists in the the loadVerticalPanel and removeResultsVerticalPanel
public static	<a href="#">loadingPanel</a> Panel that covers the entire application and blocks the user from accessing other features.
public static final	<a href="#">LOADINGPANEL_ID</a> The ID for the loading panel. Value: <b>loading-overlay</b>

public static final	<a href="#">LOADING_PANEL_MESSAGE_ID</a> The ID for the message to be displayed in the loading panel. Value: <b>loading-overlay-message</b>
public static	<a href="#">loadingPanelMessage</a> The message to be shown below the loading animation of the loading panel.
public static	<a href="#">loadInitDistButton</a> Button to load an initial concentration distribution.
public static	<a href="#">loadInitDistCellList</a> CellList used to select and load one previously saved concentration distribution.
public static	<a href="#">loadLabel</a> Label that can be used to indicate that some action is taking place.
public static	<a href="#">loadPanel</a> Pop-up panel to handle the loading of previously saved items.
public static	<a href="#">loadProtocolButton</a> Button to load a mixing protocol.
public static	<a href="#">loadProtocolCellList</a> CellList that can be used to load a previously saved mixing protocol.
public static	<a href="#">loadResultsButton</a> Button to load a previously saved mixing result
public static	<a href="#">LoadResultsCellList</a> CellList to list the to be loaded results
public static	<a href="#">loadVerticalPanel</a> Vertical panel to hold the textbox and the cancel button in the load pop-up panel.
public static	<a href="#">menuPanelInnerWrapper</a> Wrapper for the <a href="#">menuPanelOuterWrapper</a> , used in animation of submenus.
public static	<a href="#">menuPanelOuterWrapper</a> Wrapper for the main menu ( <a href="#">menuPanels</a> [0]), used in animation of hiding menu.
public static	<a href="#">menuPanels</a> Vertical panel to contain all menu items.
public static	<a href="#">menuToggleButton</a> Button to toggle whether the menu is visible.
public static	<a href="#">mixNowButton</a> Button that executes the current mixing run (initial distribution and mixing protocol) when pressed.
public static	<a href="#">newCompareButton</a> Button inside the compare performance pop-up to start a new comparison.
public static	<a href="#">noFilesFoundLabel</a> Label to indicate there are no saves found for the selected loading option
public static	<a href="#">nrStepsLabel</a> Label to be displayed above the <a href="#">nrStepsSpinner</a> , to explain its purpose.

public static	<a href="#">nrStepsSpinner</a> The numberspinner to define how many times the mixing protocol is executed that is located in the main menu.
public static	<a href="#">overwriteButtonsPanel</a> Horizontal panel to hold the OK or Overwrite/Cancel button(s) in the confirm save pop-up panel.
public static	<a href="#">overwriteSaveButton</a> Button to overwrite the item that is currently being saved.
public static	<a href="#">overwriteSavePanel</a> Pop-up panel that appears after the Save button in the save pop-up panel has been pressed.
public static	<a href="#">overwriteSaveVerticalPanel</a> Vertical panel to hold the save message and the OK/Overwrite button in the confirm save pop-up panel.
public static	<a href="#">protocolFlexTable</a> Flextable to hold all the protocol entries.
public static	<a href="#">protocolsButton</a> Button that can be used to access the protocols related submenu.
public static	<a href="#">protocolsLabel</a> Label to be displayed above the protocols related submenu.
public static	<a href="#">removeInitDistButton</a> button to remove previously saved protocols
public static	<a href="#">removeResultsPanel</a> Pop-up panel to handle the removal of results.
public static	<a href="#">removeResultsVerticalPanel</a> Vertical panel to hold the flextable and close button.
public static	<a href="#">removeSavedProtButton</a> button to remove previously saved protocols
public static	<a href="#">removeSavedResultsButton</a> Button to remove previously saved mixing results.
public static	<a href="#">resetDistButton</a> Button to reset the current distribution to completely white.
public static	<a href="#">resetProtocolButton</a> Button that resets the current mixing protocol when pressed.
public static	<a href="#">resultsButton</a> Button to enter the submenu with results related actions.
public static	<a href="#">resultsFlexTable</a> Flextable to hold all the result entries.
public static	<a href="#">resultsLabel</a> Label to be displayed above the results related submenu.
public static	<a href="#">saveButtonsPanel</a> Horizontal panel to hold the Save and Cancel buttons in the pop-up panel.

public static	<a href="#">saveDistributionButton</a> Button to save an initial concentration distribution.
public static	<a href="#">saveItemPanel</a> Pop-up panel to handle the saving of the current results.
public static	<a href="#">saveItemPanelButton</a> Button to save the item under the specified name in the <a href="#">saveNameTextBox</a> .
public static	<a href="#">saveItemVerticalPanel</a> Vertical panel to hold the textbox and the save button in the save pop-up panel.
public static	<a href="#">saveMessageLabel</a> Label to indicate that the chosen name is already in use.
public static	<a href="#">saveNameTextBox</a> Textbox to input the name in to name the file.
public static	<a href="#">saveProtocolButton</a> Button to save the current mixing protocol.
public static	<a href="#">saveResultsButton</a> Button to save the current mixing result.
public static	<a href="#">sizeLabel</a> Label to be displayed above the <a href="#">sizeSpinner</a> , to explain its purpose.
public static	<a href="#">sizeProtocolMenuLabel</a> Label to be displayed above the <a href="#">sizeProtocolMenuSpinner</a> , to explain its purpose.
public static	<a href="#">sizeProtocolMenuSpinner</a> The numberspinner to define the step size of a single wall movement, located in the protocol submenu.
public static	<a href="#">sizeSpinner</a> The numberspinner to define the step size of a single wall movement, located in the main menu.
public static	<a href="#">squareDrawingTool</a> Button to select the square-shaped drawing tool.
public static	<a href="#">toggleColour</a> Button to toggle between black and white drawing colour.
public static	<a href="#">toggleDefineProtocol</a> Toggle button that needs to be clicked to define a protocol.
public static	<a href="#">toolMenuToggleColour</a> Button to toggle between black and white drawing colour in the tool submenu.
public static	<a href="#">toolSelectButton</a> Button to change the shape of the selected drawing tool.
public static final	<a href="#">UNSUPPORTED_GEOM_TIMEOUT</a> Timeout for the somewhat longer message that appears when a geometry is unsupported. Value: 5000
public static	<a href="#">viewSingleGraphButton</a> Button to view the performance of the previously executed mixing run.

public static	<a href="#">viewSingleGraphGraphPanel</a> Simple panel to display the graph of the previously executed mixing run.
public static	<a href="#">viewSingleGraphHorizontalPanel</a> Horizontal panel to contain the Close and Export buttons.
public static	<a href="#">viewSingleGraphPopupPanel</a> Pop-up menu to display the performance of a single graph.
public static	<a href="#">viewSingleGraphVerticalPanel</a> Vertical panel to contain the horizontal panel and simple panel of the single graph pop-up.

## Constructor Summary

public	<a href="#">GuiState()</a>
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## Method Summary

static void	<a href="#">setIDs()</a> Sets the IDs for all widgets in this class (except the CellBrowser, ToggleColourButton and MenuToggleButton).
-------------	---

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Fields

### LOADINGPANEL\_ID

```
public static final java.lang.String LOADINGPANEL_ID
```

The ID for the loading panel.  
Constant value: **loading-overlay**

### LOADINGPANEL\_MESSAGE\_ID

```
public static final java.lang.String LOADINGPANEL_MESSAGE_ID
```

The ID for the message to be displayed in the loading panel.  
Constant value: **loading-overlay-message**

### DEFAULT\_TIMEOUT

```
public static final int DEFAULT_TIMEOUT
```

Stores how long in milliseconds a SAVE\_SUCCESS\_MESSAGE should be shown in a NotificationPanel.  
Constant value: **2000**

### UNSUPPORTED\_GEOM\_TIMEOUT

```
public static final int UNSUPPORTED_GEOM_TIMEOUT
```

Timeout for the somewhat longer message that appears when a geometry is unsupported.

---

(continued from last page)

Constant value: 5000

---

## loadingPanel

```
public static com.google.gwt.user.client.ui.FlowPanel loadingPanel
```

Panel that covers the entire application and blocks the user from accessing other features.

---

## loadingPanelMessage

```
public static com.google.gwt.user.client.ui.Label loadingPanelMessage
```

The message to be shown below the loading animation of the loading panel. This may be empty, but can be used to inform the user about *what* is loading exactly.

---

## menuPanels

```
public static com.google.gwt.user.client.ui.VerticalPanel menuPanels
```

Vertical panel to contain all menu items.

---

## menuPanelOuterWrapper

```
public static com.google.gwt.user.client.ui.FlowPanel menuPanelOuterWrapper
```

Wrapper for the main menu ([menuPanels](#)[0]), used in animation of hiding menu.

---

## menuPanelInnerWrapper

```
public static com.google.gwt.user.client.ui.FlowPanel menuPanelInnerWrapper
```

Wrapper for the [menuPanelOuterWrapper](#), used in animation of submenus.

---

## menuToggleButton

```
public static nl.tue.fingerpaint.client.gui.buttons.MenuToggleButton menuToggleButton
```

Button to toggle whether the menu is visible.

---

## backMenu1Button

```
public static nl.tue.fingerpaint.client.gui.buttons.BackMenuButton backMenu1Button
```

Button that is used in the first menu level to go up one level.

---

## backMenu2Button

```
public static nl.tue.fingerpaint.client.gui.buttons.BackMenuButton backMenu2Button
```

Button that is used in the second menu level to go up one level.

---

## drawingToolLabel

```
public static nl.tue.fingerpaint.client.gui.labels.DrawingToolLabel drawingToolLabel
```

Label to be displayed above the drawing tool related submenu.

---

(continued from last page)

---

## cursorSizeSpinner

```
public static nl.tue.fingerpaint.client.gui.spinners.CursorSizeSpinner  
cursorSizeSpinner
```

Numberspinner to change the size of the drawing tool.

---

## toggleColour

```
public static nl.tue.fingerpaint.client.gui.buttons.ToggleColourButton toggleColour
```

Button to toggle between black and white drawing colour.

---

## toolMenuToggleColour

```
public static nl.tue.fingerpaint.client.gui.buttons.ToggleColourButton  
toolMenuToggleColour
```

Button to toggle between black and white drawing colour in the tool submenu.

---

## toolSelectButton

```
public static nl.tue.fingerpaint.client.gui.buttons.ToolSelectButton toolSelectButton
```

Button to change the shape of the selected drawing tool.

---

## squareDrawingTool

```
public static nl.tue.fingerpaint.client.gui.buttons.SquareDrawingToolToggleButton  
squareDrawingTool
```

Button to select the square-shaped drawing tool.

---

## circleDrawingTool

```
public static nl.tue.fingerpaint.client.gui.buttons.CircleDrawingToolToggleButton  
circleDrawingTool
```

Button to select the circle-shaped drawing tool.

---

## distributionsLabel

```
public static nl.tue.fingerpaint.client.gui.labels.DistributionsLabel  
distributionsLabel
```

Label to be displayed above the distributions related submenu.

---

## loadInitDistCellList

```
public static nl.tue.fingerpaint.client.gui.celllists.LoadInitDistCellList  
loadInitDistCellList
```

CellList used to select and load one previously saved concentration distribution.

---

## distributionsButton

```
public static nl.tue.fingerpaint.client.gui.buttons.DistributionsButton  
distributionsButton
```

---

---

(continued from last page)

Button to enter the submenu with distribution related actions.

---

## saveDistributionButton

```
public static nl.tue.fingerpaint.client.gui.buttons.SaveDistributionButton  
saveDistributionButton
```

Button to save an initial concentration distribution.

---

## loadInitDistButton

```
public static nl.tue.fingerpaint.client.gui.buttons.LoadInitDistButton  
loadInitDistButton
```

Button to load an initial concentration distribution.

---

## resetDistButton

```
public static nl.tue.fingerpaint.client.gui.buttons.ResetDistButton resetDistButton
```

Button to reset the current distribution to completely white.

---

## resultsLabel

```
public static nl.tue.fingerpaint.client.gui.labels.ResultsLabel resultsLabel
```

Label to be displayed above the results related submenu.

---

## resultsButton

```
public static nl.tue.fingerpaint.client.gui.buttons.ResultsButton resultsButton
```

Button to enter the submenu with results related actions.

---

## saveResultsButton

```
public static nl.tue.fingerpaint.client.gui.buttons.SaveResultsButton  
saveResultsButton
```

Button to save the current mixing result.

---

## loadResultsButton

```
public static nl.tue.fingerpaint.client.gui.buttons.LoadResultsButton  
loadResultsButton
```

Button to load a previously saved mixing result

---

## LoadResultsCellList

```
public static nl.tue.fingerpaint.client.gui.celllists.LoadResultsCellList  
LoadResultsCellList
```

CellList to list the to be loaded results

---

## removeResultsPanel

```
public static nl.tue.fingerpaint.client.gui.panels.RemoveResultsPopupPanel  
removeResultsPanel
```



---

(continued from last page)

Pop-up panel to handle the removal of results.

---

## **removeResultsVerticalPanel**

```
public static nl.tue.fingerpaint.client.gui.panels.RemoveResultsVerticalPanel  
removeResultsVerticalPanel
```

Vertical panel to hold the flextable and close button.

---

## **resultsFlexTable**

```
public static nl.tue.fingerpaint.client.gui.flextables.ResultsFlexTable  
resultsFlexTable
```

Flextable to hold all the result entries.

---

## **removeSavedResultsButton**

```
public static nl.tue.fingerpaint.client.gui.buttons.RemoveSavedResultsButton  
removeSavedResultsButton
```

Button to remove previously saved mixing results.

---

## **closeResultsButton**

```
public static nl.tue.fingerpaint.client.gui.buttons.CloseResultsButton  
closeResultsButton
```

Button to close the remove results pop-up panel.

---

## **removeSavedProtButton**

```
public static nl.tue.fingerpaint.client.gui.buttons.RemoveSavedProtButton  
removeSavedProtButton
```

button to remove previously saved protocols

---

## **protocolFlexTable**

```
public static nl.tue.fingerpaint.client.gui.flextables.ProtocolFlexTable  
protocolFlexTable
```

Flextable to hold all the protocol entries.

---

## **removeInitDistButton**

```
public static nl.tue.fingerpaint.client.gui.buttons.RemoveInitDistButton  
removeInitDistButton
```

button to remove previously saved protocols

---

## **initDistFlexTable**

```
public static nl.tue.fingerpaint.client.gui.flextables.InitDistFlexTable  
initDistFlexTable
```

Flextable to hold all the protocol entries.

---

(continued from last page)

---

## protocolsLabel

```
public static nl.tue.fingerpaint.client.gui.labels.ProtocolsLabel protocolsLabel
```

Label to be displayed above the protocols related submenu.

---

## protocolsButton

```
public static nl.tue.fingerpaint.client.gui.buttons.ProtocolsButton protocolsButton
```

Button that can be used to access the protocols related submenu.

---

## loadProtocolCellList

```
public static nl.tue.fingerpaint.client.gui.celllists.LoadProtocolCellList  
loadProtocolCellList
```

CellList that can be used to load a previously saved mixing protocol.

---

## nrStepsSpinner

```
public static nl.tue.fingerpaint.client.gui.spinners.NrStepsSpinner nrStepsSpinner
```

The numberspinner to define how many times the mixing protocol is executed that is located in the main menu.

---

## saveProtocolButton

```
public static nl.tue.fingerpaint.client.gui.buttons.SaveProtocolButton  
saveProtocolButton
```

Button to save the current mixing protocol.

---

## loadProtocolButton

```
public static nl.tue.fingerpaint.client.gui.buttons.LoadProtocolButton  
loadProtocolButton
```

Button to load a mixing protocol.

---

## resetProtocolButton

```
public static nl.tue.fingerpaint.client.gui.buttons.ResetProtocolButton  
resetProtocolButton
```

Button that resets the current mixing protocol when pressed.

---

## mixNowButton

```
public static nl.tue.fingerpaint.client.gui.buttons.MixNowButton mixNowButton
```

Button that executes the current mixing run (initial distribution and mixing protocol) when pressed.

---

## nrStepsLabel

```
public static com.google.gwt.user.client.ui.Label nrStepsLabel
```

Label to be displayed above the [nrStepsSpinner](#), to explain its purpose.

---

---

(continued from last page)

## labelProtocolRepresentation

```
public static nl.tue.fingerpaint.client.gui.labels.ProtocolRepresentationLabel  
labelProtocolRepresentation
```

Label that shows the textual representation of the current mixing protocol.

---

## labelProtocolLabel

```
public static nl.tue.fingerpaint.client.gui.labels.ProtocolLabel labelProtocolLabel
```

Label to be displayed above the protocol-related buttons, to explain their purpose.

---

## toggleDefineProtocol

```
public static nl.tue.fingerpaint.client.gui.buttons.ToggleDefineProtocol  
toggleDefineProtocol
```

Toggle button that needs to be clicked to define a protocol. If it isn't in its default state, steps 9wall movements) are executed directly.

---

## backStopDefiningProtocol

```
public static nl.tue.fingerpaint.client.gui.buttons.BackStopDefiningProtocolButton  
backStopDefiningProtocol
```

Button that is used in the submenu with protocol related stuff to go back to the main menu.

---

## saveItemPanel

```
public static nl.tue.fingerpaint.client.gui.panels.SaveItemPopupPanel saveItemPanel
```

Pop-up panel to handle the saving of the current results.

---

## saveButtonsPanel

```
public static com.google.gwt.user.client.ui.HorizontalPanel saveButtonsPanel
```

Horizontal panel to hold the Save and Cancel buttons in the pop-up panel.

---

## saveItemVerticalPanel

```
public static com.google.gwt.user.client.ui.VerticalPanel saveItemVerticalPanel
```

Vertical panel to hold the textbox and the save button in the save pop-up panel.

---

## saveItemPanelButton

```
public static nl.tue.fingerpaint.client.gui.buttons.SaveItemPanelButton  
saveItemPanelButton
```

Button to save the item under the specified name in the [saveNameTextBox](#).

---

## cancelSaveResultsButton

```
public static nl.tue.fingerpaint.client.gui.buttons.CancelSaveResultsButton  
cancelSaveResultsButton
```

Cancel button inside the save pop-up menu.

---

---

## closeSaveButton

```
public static nl.tue.fingerpaint.client.gui.buttons.CloseSaveButton closeSaveButton
```

Ok / Cancel button to close the save results or overwrite pop-up panel.

---

## saveNameTextBox

```
public static nl.tue.fingerpaint.client.gui.textboxes.SaveNameTextBox saveNameTextBox
```

Textbox to input the name in to name the file.

---

## saveMessageLabel

```
public static nl.tue.fingerpaint.client.gui.labels.SaveMessageLabel saveMessageLabel
```

Label to indicate that the chosen name is already in use.

---

## overwriteSavePanel

```
public static nl.tue.fingerpaint.client.gui.panels.OverwriteSavePopupPanel  
overwriteSavePanel
```

Pop-up panel that appears after the Save button in the save pop-up panel has been pressed.

---

## overwriteButtonsPanel

```
public static com.google.gwt.user.client.ui.HorizontalPanel overwriteButtonsPanel
```

Horizontal panel to hold the OK or Overwrite/Cancel button(s) in the confirm save pop-up panel.

---

## overwriteSaveVerticalPanel

```
public static com.google.gwt.user.client.ui.VerticalPanel overwriteSaveVerticalPanel
```

Vertical panel to hold the save message and the OK/Overwrite button in the confirm save pop-up panel.

---

## overwriteSaveButton

```
public static nl.tue.fingerpaint.client.gui.buttons.OverwriteSaveButton  
overwriteSaveButton
```

Button to overwrite the item that is currently being saved.

---

## loadVerticalPanel

```
public static nl.tue.fingerpaint.client.gui.panels.LoadVerticalPanel loadVerticalPanel
```

Vertical panel to hold the textbox and the cancel button in the load pop-up panel.

---

## listScrollPanel

```
public static com.google.gwt.user.client.ui.ScrollPanel listScrollPanel
```

Scroll panel to hold the lists in the the loadVerticalPanel and removeResultsVerticalPanel

---

---

(continued from last page)

## loadPanel

```
public static nl.tue.fingerpaint.client.gui.panels.LoadPopupPanel loadPanel
```

Pop-up panel to handle the loading of previously saved items.

---

## loadLabel

```
public static com.google.gwt.user.client.ui.Label loadLabel
```

Label that can be used to indicate that some action is taking place.

---

## closeLoadButton

```
public static nl.tue.fingerpaint.client.gui.buttons.CloseLoadButton closeLoadButton
```

Button to close the load pop-up menu.

---

## noFilesFoundLabel

```
public static nl.tue.fingerpaint.client.gui.labels.NoFilesFoundLabel noFilesFoundLabel
```

Label to indicate there are no saves found for the selected loading option

---

## sizeSpinner

```
public static nl.tue.fingerpaint.client.gui.spinners.StepSizeSpinner sizeSpinner
```

The numberspinner to define the step size of a single wall movement, located in the main menu.

---

## sizeProtocolMenuSpinner

```
public static nl.tue.fingerpaint.client.gui.spinners.StepSizeSpinner  
sizeProtocolMenuSpinner
```

The numberspinner to define the step size of a single wall movement, located in the protocol submenu.

---

## sizeLabel

```
public static com.google.gwt.user.client.ui.Label sizeLabel
```

Label to be displayed above the [sizeSpinner](#), to explain its purpose.

---

## sizeProtocolMenuLabel

```
public static com.google.gwt.user.client.ui.Label sizeProtocolMenuLabel
```

Label to be displayed above the [sizeProtocolMenuSpinner](#), to explain its purpose.

---

## exportDistributionButton

```
public static nl.tue.fingerpaint.client.gui.buttons.ExportDistributionButton  
exportDistributionButton
```

Button to export the image of the current distribution.

---

---

(continued from last page)

## **viewSingleGraphPopupPanel**

```
public static nl.tue.fingerpaint.client.gui.panels.ViewSingleGraphPopupPanel  
viewSingleGraphPopupPanel
```

Pop-up menu to display the performance of a single graph. It is opened when [viewSingleGraphButton](#) is clicked. It contains a vertical panel.

---

## **viewSingleGraphHorizontalPanel**

```
public static com.google.gwt.user.client.ui.HorizontalPanel  
viewSingleGraphHorizontalPanel
```

Horizontal panel to contain the Close and Export buttons.

---

## **viewSingleGraphVerticalPanel**

```
public static com.google.gwt.user.client.ui.VerticalPanel viewSingleGraphVerticalPanel
```

Vertical panel to contain the horizontal panel and simple panel of the single graph pop-up.

---

## **viewSingleGraphGraphPanel**

```
public static com.google.gwt.user.client.ui.SimplePanel viewSingleGraphGraphPanel
```

Simple panel to display the graph of the previously executed mixing run.

---

## **viewSingleGraphButton**

```
public static nl.tue.fingerpaint.client.gui.buttons.ViewSingleGraphButton  
viewSingleGraphButton
```

Button to view the performance of the previously executed mixing run.

---

## **closeSingleGraphViewButton**

```
public static nl.tue.fingerpaint.client.gui.buttons.CloseSingleGraphViewButton  
closeSingleGraphViewButton
```

Button to close the performance pop-up.

---

## **exportSingleGraphButton**

```
public static nl.tue.fingerpaint.client.gui.buttons.ExportSingleGraphButton  
exportSingleGraphButton
```

Button to export the image of the current mixing performance.

---

## **exportMultipleGraphButton**

```
public static nl.tue.fingerpaint.client.gui.buttons.ExportMultipleGraphsButton  
exportMultipleGraphButton
```

Button to export the image of multiple mixing performances.

---

## **compareSelectPopupCellList**

```
public static nl.tue.fingerpaint.client.gui.celllists.CompareSelectPopupCellList  
compareSelectPopupCellList
```

(continued from last page)

CellList that can be used to select multiple mixing runs from all available saved mixing runs.

---

## compareSelectPopupPanel

```
public static nl.tue.fingerpaint.client.gui.panels.CompareSelectPopupPanel
compareSelectPopupPanel
```

Pop-up panel to display all the previously stored mixing runs with performance. It also contains the Compare and Close buttons.

---

## comparePopupPanel

```
public static nl.tue.fingerpaint.client.gui.panels.ComparePopupPanel comparePopupPanel
```

Pop-up panel that displays the simple panel with the performance graph and New Comparison and Close buttons.

---

## compareGraphPanel

```
public static com.google.gwt.user.client.ui.SimplePanel compareGraphPanel
```

Simple panel that displays a graph with the mixing performance of the selected mixing runs.

---

## comparePerformanceButton

```
public static nl.tue.fingerpaint.client.gui.buttons.ComparePerformanceButton
comparePerformanceButton
```

Button to compare the performance of previously saved mixing runs. When clicked, it opens the [compareSelectPopupPanel](#) pop-up.

---

## compareButton

```
public static nl.tue.fingerpaint.client.gui.buttons.CompareButton compareButton
```

Button to compare the performance of the selected mixing runs.

---

## cancelCompareButton

```
public static nl.tue.fingerpaint.client.gui.buttons.CancelCompareButton
cancelCompareButton
```

Cancel button inside the compare performance pop-up.

---

## closeCompareButton

```
public static nl.tue.fingerpaint.client.gui.buttons.CloseCompareButton
closeCompareButton
```

Close button inside the compare performance pop-up.

---

## newCompareButton

```
public static nl.tue.fingerpaint.client.gui.buttons.NewCompareButton newCompareButton
```

Button inside the compare performance pop-up to start a new comparison. When clicked, it closes the [comparePopupPanel](#) pop-up and opens the [compareSelectPopupPanel](#) pop-up

---

## Constructors

(continued from last page)

## GuiState

```
public GuiState()
```

## Methods

### setIDs

```
public static void setIDs()
```

Sets the IDs for all widgets in this class (except the CellBrowser, ToggleColourButton and MenuToggleButton). The ID is either used in the CSS file or for debugging purposes. A widget may **never** have an ordinary ID and a debug ID at the same time.



---

Package

**nl.tue.fingerpaint.client.gui.animation**

# nl.tue.fingerpaint.client.gui.animation

## Class Direction

```

java.lang.Object
  |
  +- java.lang.Enum
        |
        +- nl.tue.fingerpaint.client.gui.animation.Direction
  
```

### All Implemented Interfaces:

[HasUniqueBitIdentifier](#), java.io.Serializable, java.lang.Comparable

public class **Direction**  
 extends java.lang.Enum  
 implements java.lang.Comparable, java.io.Serializable, [HasUniqueBitIdentifier](#)

Used in animation classes.

Field Summary	
public static final	<a href="#">BOTTOM</a> Used to indicate that an animation should go to the bottom.
public static final	<a href="#">LEFT</a> Used to indicate that an animation should go to the left.
public static final	<a href="#">RIGHT</a> Used to indicate that an animation should go to the right.
public static final	<a href="#">TOP</a> Used to indicate that an animation should go to the top.

Method Summary	
static <a href="#">Direction</a>	<a href="#">valueOf</a> (java.lang.String name)
static <a href="#">Direction[]</a>	<a href="#">values</a> ()

Methods inherited from class java.lang.Enum
clone, compareTo, equals, finalize, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface java.lang.Comparable
compareTo

Methods inherited from interface <a href="#">nl.tue.fingerpaint.client.gui.animation.HasUniqueBitIdentifier</a>
---

---

[getId](#)

---

## Fields

### TOP

```
public static final nl.tue.fingerpaint.client.gui.animation.Direction TOP
```

Used to indicate that an animation should go to the top.

---

### RIGHT

```
public static final nl.tue.fingerpaint.client.gui.animation.Direction RIGHT
```

Used to indicate that an animation should go to the right.

---

### BOTTOM

```
public static final nl.tue.fingerpaint.client.gui.animation.Direction BOTTOM
```

Used to indicate that an animation should go to the bottom.

---

### LEFT

```
public static final nl.tue.fingerpaint.client.gui.animation.Direction LEFT
```

Used to indicate that an animation should go to the left.

---

## Methods

### values

```
public static Direction\[\] values()
```

---

### valueOf

```
public static Direction valueOf(java.lang.String name)
```

---

## nl.tue.fingerpaint.client.gui.animation Interface HasUniqueBitIdentifier

All Known Implementing Classes:

[Direction](#)

```
public interface HasUniqueBitIdentifier
extends
```

This interface should be implemented by enumerations that all have an identifier that is unique in such a way that the bit is unique.

Using this unique ID thus allows for logical or and and to combine members from the identifier.

**Example:** suppose we have an enum Units that implements this interface and has members UNITA, UNITB and UNITC. We could then do:

```
// Combine members
int combineUnitsHere = Units.UNITA | Units.UNITC;

...

// Check if a variable contains certain units
if ((combineUnitsHere & Units.UNITB) > 0) {
    // this is not the case
} else if ((combineUnitsHere & Units.UNITC) > 0) {
    // this is the case
}
```

### Method Summary

int	<a href="#">getId()</a> Return a unique identifier.
-----	--

### Methods

#### getId

```
public int getId()
```

Return a unique identifier.

**Returns:**

an ID that is unique up to the bit

**See Also:**

[HasUniqueBitIdentifier](#)

## nl.tue.fingerpaint.client.gui.animation Class MarginAnimation

```
java.lang.Object
```

```
├-com.google.gwt.animation.client.Animation
```

```
└-nl.tue.fingerpaint.client.gui.animation.MarginAnimation
```

```
public class MarginAnimation
extends com.google.gwt.animation.client.Animation
```

A MarginAnimation can animate the margin of an element.

### Constructor Summary

public	<a href="#">MarginAnimation</a> (com.google.gwt.dom.client.Element animationSubject, int animationDirections) Construct a new object that can be used to animate the given element.
--------	--

### Method Summary

void	<a href="#">doAnimate</a> (int size, int durationMillis) Perform an animation of all animated margins to the given size.
void	<a href="#">doAnimate</a> (int size, int durationMillis, com.google.gwt.user.client.rpc.AsyncCallback onComplete) Perform an animation of all animated margins to the given size.
void	<a href="#">onComplete</a> ()
void	<a href="#">onStart</a> ()
void	<a href="#">onUpdate</a> (double progress)
void	<a href="#">setAnimationDirections</a> (int directions) Change which margin(s) is (are) animated.

#### Methods inherited from class com.google.gwt.animation.client.Animation

```
cancel, interpolate, onCancel, onComplete, onStart, onUpdate, run, run, run, run
```

#### Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

### Constructors

(continued from last page)

## MarginAnimation

```
public MarginAnimation(com.google.gwt.dom.client.Element animationSubject,  
    int animationDirections)
```

Construct a new object that can be used to animate the given element.

### Parameters:

animationSubject - The element to be animated.

animationDirections - Which margins to animate. Should be a logical combination of [Directions](#), for example Direction.TOP | Direction.RIGHT.

## Methods

### setAnimationDirections

```
public void setAnimationDirections(int directions)
```

Change which margin(s) is (are) animated.

### Parameters:

directions - The new margins to be animated. Should be a logical combination of [Directions](#), for example Direction.TOP | Direction.RIGHT.

### doAnimate

```
public void doAnimate(int size,  
    int durationMillis)
```

Perform an animation of all animated margins to the given size.

### Parameters:

size - Wanted size of the margins.

durationMillis - Time the animation takes.

### doAnimate

```
public void doAnimate(int size,  
    int durationMillis,  
    com.google.gwt.user.client.rpc.AsyncCallback onComplete)
```

Perform an animation of all animated margins to the given size.

### Parameters:

size - Wanted size of the margins.

durationMillis - Time the animation takes.

onComplete - Callback to call when animation is done. Ignored when null. This callback will (guaranteed) only be called with a true argument on the AsyncCallback#onSuccess(Object) callback.

### onComplete

```
protected void onComplete()
```

### onStart

```
protected void onStart()
```

(continued from last page)

---

## **onUpdate**

protected void **onUpdate**(double progress)

## nl.tue.fingerpaint.client.gui.animation Class RotationAnimation

java.lang.Object

├-com.google.gwt.animation.client.Animation

└-nl.tue.fingerpaint.client.gui.animation.RotationAnimation

public class **RotationAnimation**  
extends com.google.gwt.animation.client.Animation

A RotationAnimation can animate the rotation of an element.

### Field Summary

public static final	<a href="#">ANIMATE_CLOCKWISE</a> Constant to indicate that the rotation should go clockwise. Value: <b>true</b>
public static final	<a href="#">ANIMATE_COUNTERCLOCKWISE</a> Constant to indicate that the rotation should go counter clockwise. Value: <b>false</b>
protected	<a href="#">axis</a> Axis to animate
protected	<a href="#">clockwise</a> If animation is going clockwise or not.
protected	<a href="#">newAngle</a> Target angle of element.
protected	<a href="#">oldAngle</a> Original angle of element.
protected	<a href="#">running</a> If animation is in progress.
protected	<a href="#">subject</a> Panel that is animated.

### Constructor Summary

public	<a href="#">RotationAnimation</a> (com.google.gwt.dom.client.Element animationSubject, double angle) Construct a new object that can be used to animate the given element.
--------	---

### Method Summary

void	<a href="#">doRotate</a> (int durationMillis, int toAngle, boolean clockwise) Perform an animation of the element to the given angle, taking the given number of milliseconds.
------	---



double	<a href="#">mod</a> (double num) Return the modulo 360 of the given number, that is guaranteed to be between 0 and 360.
void	<a href="#">onComplete</a> ()
void	<a href="#">onStart</a> ()
void	<a href="#">onUpdate</a> (double progress)
void	<a href="#">setAngle</a> (double angle) Set the rotation of the <a href="#">subject</a> by setting a number of CSS properties.

**Methods inherited from class** com.google.gwt.animation.client.Animation

cancel, interpolate, onCancel, onComplete, onStart, onUpdate, run, run, run, run

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Fields

### ANIMATE\_CLOCKWISE

public static final boolean **ANIMATE\_CLOCKWISE**Constant to indicate that the rotation should go clockwise.  
Constant value: **true**

### ANIMATE\_COUNTERCLOCKWISE

public static final boolean **ANIMATE\_COUNTERCLOCKWISE**Constant to indicate that the rotation should go counter clockwise.  
Constant value: **false**

### subject

protected com.google.gwt.dom.client.Element **subject**

Panel that is animated.

### axis

protected int **axis**

Axis to animate

### running

protected boolean **running**

If animation is in progress.

---

## clockwise

protected boolean **clockwise**

If animation is going clockwise or not.

---

## oldAngle

protected double **oldAngle**

Original angle of element.

---

## newAngle

protected double **newAngle**

Target angle of element.

## Constructors

### RotationAnimation

```
public RotationAnimation(com.google.gwt.dom.client.Element animationSubject,  
                        double angle)
```

Construct a new object that can be used to animate the given element. The current rotation will be set to the given angle.

**Parameters:**

animationSubject - The element to be animated.

angle - The rotation to set to the element right now.

## Methods

### doRotate

```
public void doRotate(int durationMillis,  
                    int toAngle,  
                    boolean clockwise)
```

Perform an animation of the element to the given angle, taking the given number of milliseconds. The rotation will go either clockwise or counter clockwise, depending on the given parameter.

**Parameters:**

durationMillis - Time the animation takes.

toAngle - Angle to which element should rotate.

clockwise - If the animation should go clockwise (true) or counter clockwise (false).

---

### onComplete

```
protected void onComplete()
```

---

### onStart

```
protected void onStart()
```

## onUpdate

protected void **onUpdate**(double progress)

---

## mod

protected double **mod**(double num)

Return the modulo 360 of the given number, that is guaranteed to be between 0 and 360.

**Parameters:**

num - The number of which the modulo is required.

**Returns:**

A number between 0 and 360, with `\result = num % 360`.

---

## setAngle

protected void **setAngle**(double angle)

Set the rotation of the [subject](#) by setting a number of CSS properties.

**Parameters:**

angle - The rotation in degrees to set. (Should be between 0 and 360.)

## nl.tue.fingerpaint.client.gui.animation Class SizeAnimation

```

java.lang.Object
  |
  +- com.google.gwt.animation.client.Animation
    |
    +- nl.tue.fingerpaint.client.gui.animation.SizeAnimation
  
```

public class **SizeAnimation**  
 extends com.google.gwt.animation.client.Animation

A SizeAnimation can animate the size of an element.

### Field Summary

public static final	<a href="#">ANIMATE_BOTH</a> Constant to indicate that both sides (height and width) should be animated on hide/show. Value: 2
public static final	<a href="#">ANIMATE_HEIGHT</a> Constant to indicate that only the height should be animated. Value: 0
public static final	<a href="#">ANIMATE_WIDTH</a> Constant to indicate that only the width should be animated. Value: 1

### Constructor Summary

public	<a href="#">SizeAnimation</a> (com.google.gwt.dom.client.Element animationSubject, int animationAxis) Construct a new object that can be used to animate the given element.
--------	--

### Method Summary

void	<a href="#">doHide</a> (int durationMillis) Perform a sliding animation to hide the element on the selected side of the screen.
void	<a href="#">doHide</a> (int durationMillis, com.google.gwt.user.client.rpc.AsyncCallback onComplete) Perform a sliding animation to hide the element on the selected side of the screen.
void	<a href="#">doShow</a> (int durationMillis) Perform a sliding animation to show the element, that is, restore its position before a call to <a href="#">doHide(int)</a> .
void	<a href="#">doShow</a> (int durationMillis, com.google.gwt.user.client.rpc.AsyncCallback onComplete) Perform a sliding animation to show the element, that is, restore its position before a call to <a href="#">doHide(int)</a> .
int	<a href="#">getInternalHeight</a> () Return the height of the element as is saved in this animation.

int	<a href="#">getInternalWidth()</a> Return the width of the element as is saved in this animation.
void	<a href="#">onComplete()</a>
void	<a href="#">onStart()</a>
void	<a href="#">onUpdate(double progress)</a>
void	<a href="#">refreshSize()</a> Internally update the size of the element that is animated.
void	<a href="#">setAxis(int axis)</a> Change which axis are animated.

**Methods inherited from class** com.google.gwt.animation.client.Animation

cancel, interpolate, onCancel, onComplete, onStart, onUpdate, run, run, run, run

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Fields

### ANIMATE\_BOTH

public static final int **ANIMATE\_BOTH**

Constant to indicate that both sides (height and width) should be animated on hide/show.  
Constant value: **2**

### ANIMATE\_HEIGHT

public static final int **ANIMATE\_HEIGHT**

Constant to indicate that only the height should be animated.  
Constant value: **0**

### ANIMATE\_WIDTH

public static final int **ANIMATE\_WIDTH**

Constant to indicate that only the width should be animated.  
Constant value: **1**

## Constructors

### SizeAnimation

public **SizeAnimation**(com.google.gwt.dom.client.Element animationSubject, int animationAxis)

Construct a new object that can be used to animate the given element.

(continued from last page)

**Parameters:**

`animationSubject` - The element to be animated.

`animationAxis` - Which axis to animate. Use [ANIMATE\\_BOTH](#), [ANIMATE\\_HEIGHT](#) or [ANIMATE\\_WIDTH](#) here.

## Methods

### refreshSize

```
public void refreshSize()
```

Internally update the size of the element that is animated.

### setAxis

```
public void setAxis(int axis)
```

Change which axis are animated. Use [ANIMATE\\_BOTH](#), [ANIMATE\\_HEIGHT](#) or [ANIMATE\\_WIDTH](#) here. When not one of these constants, [ANIMATE\\_WIDTH](#) is used.

**Parameters:**

`axis` - The new axis.

### doShow

```
public void doShow(int durationMillis)
```

Perform a sliding animation to show the element, that is, restore its position before a call to [doHide\(int\)](#). If the element is not hidden by such a call, nothing happens.

**Parameters:**

`durationMillis` - Time the animation takes.

### doShow

```
public void doShow(int durationMillis,  
    com.google.gwt.user.client.rpc.AsyncCallback onComplete)
```

Perform a sliding animation to show the element, that is, restore its position before a call to [doHide\(int\)](#). If the element is not hidden by such a call, nothing happens.

**Parameters:**

`durationMillis` - Time the animation takes.

`onComplete` - Callback to call when animation is done. Ignored when null. This callback will (guaranteed) only be called with a true argument on the `AsyncCallback#onSuccess(Object)` callback.

### doHide

```
public void doHide(int durationMillis)
```

Perform a sliding animation to hide the element on the selected side of the screen.

**Parameters:**

`durationMillis` - Time the animation takes.

### doHide

```
public void doHide(int durationMillis,  
    com.google.gwt.user.client.rpc.AsyncCallback onComplete)
```

---

(continued from last page)

Perform a sliding animation to hide the element on the selected side of the screen.

**Parameters:**

`durationMillis` - Time the animation takes.

`onComplete` - Callback to call when animation is done. Ignored when null. This callback will (guaranteed) only be called with a true argument on the `AsyncCallback#onSuccess(Object)` callback.

---

**getInternalHeight**

```
public int getInternalHeight()
```

Return the height of the element as is saved in this animation.

**Returns:**

the (original) height of the element as internally saved

---

**getInternalWidth**

```
public int getInternalWidth()
```

Return the width of the element as is saved in this animation.

**Returns:**

the (original) width of the element as internally saved

---

**onComplete**

```
protected void onComplete()
```

---

**onStart**

```
protected void onStart()
```

---

**onUpdate**

```
protected void onUpdate(double progress)
```

---

## nl.tue.fingerpaint.client.gui.animation Class SlideAnimation

java.lang.Object

└-com.google.gwt.animation.client.Animation

└-nl.tue.fingerpaint.client.gui.animation.SlideAnimation

public class **SlideAnimation**

extends com.google.gwt.animation.client.Animation

A SlideAnimation can slide an absolute positioned element out of the screen. It uses `Window.getClientHeight()` and `Window.getClientWidth()` to automatically determine where to animate a panel to.

### Field Summary

protected	<a href="#">direction</a> Direction to move panel in.
protected	<a href="#">elPos</a> On-screen original position of the element.
protected	<a href="#">hidden</a> If element is hidden or not.
protected	<a href="#">running</a> If animation is in progress.
protected	<a href="#">subject</a> Panel that is animated.

### Constructor Summary

public	<a href="#">SlideAnimation</a> (com.google.gwt.dom.client.Element animationSubject, <a href="#">Direction</a> animationDirection) Construct a new object that can be used to animate the given element.
--------	--

### Method Summary

void	<a href="#">doSlideIn</a> (int durationMillis) Perform a sliding animation to show the element, that is, restore its position before a call to <a href="#">doSlideOut(int)</a> .
void	<a href="#">doSlideOut</a> (int durationMillis) Perform a sliding animation to hide the element on the selected side of the screen.
void	<a href="#">onComplete</a> ()
void	<a href="#">onStart</a> ()
void	<a href="#">onUpdate</a> (double progress)



void	<a href="#">setDirection</a> ( <a href="#">Direction</a> direction) Change direction of animation.
------	---

**Methods inherited from class** `com.google.gwt.animation.client.Animation`

cancel, interpolate, onCancel, onComplete, onStart, onUpdate, run, run, run, run

**Methods inherited from class** `java.lang.Object`

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Fields

### subject

protected `com.google.gwt.dom.client.Element` **subject**

Panel that is animated.

### direction

protected `nl.tue.fingerpaint.client.gui.animation.Direction` **direction**

Direction to move panel in.

### running

protected boolean **running**

If animation is in progress.

### hidden

protected boolean **hidden**

If element is hidden or not.

### elPos

protected `com.google.gwt.touch.client.Point` **elPos**

On-screen original position of the element.

## Constructors

### SlideAnimation

```
public SlideAnimation(com.google.gwt.dom.client.Element animationSubject,
    Direction animationDirection)
```

Construct a new object that can be used to animate the given element.

**Parameters:**

`animationSubject` - The element to be animated. Should be positioned absolutely.

(continued from last page)

`animationDirection` - The side of the window to which the panel should move until it is not visible anymore.

## Methods

### **setDirection**

```
public void setDirection(Direction direction)
```

Change direction of animation. Cannot be changed while an animation is running.

**Parameters:**

`direction` - The new direction.

---

### **doSlideIn**

```
public void doSlideIn(int durationMillis)
```

Perform a sliding animation to show the element, that is, restore its position before a call to [doSlideOut\(int\)](#). If the element is not hidden by such a call, nothing happens.

**Parameters:**

`durationMillis` - Time the animation takes.

---

### **doSlideOut**

```
public void doSlideOut(int durationMillis)
```

Perform a sliding animation to hide the element on the selected side of the screen.

**Parameters:**

`durationMillis` - Time the animation takes.

---

### **onComplete**

```
protected void onComplete()
```

---

### **onStart**

```
protected void onStart()
```

---

### **onUpdate**

```
protected void onUpdate(double progress)
```

---

Package

**nl.tue.fingerpaint.client.gui.buttons**

## nl.tue.fingerpaint.client.gui.buttons

### Class BackMenuButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- io.ashton.fastpress.client.fast.FastPressElement
                  |
                  +- nl.tue.fingerpaint.client.gui.buttons.FastButton
                      |
                      +- nl.tue.fingerpaint.client.gui.buttons.BackMenuButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **BackMenuButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to go up one level in the menu structure.

## Field Summary

public static final	<a href="#">STYLE_NAME</a> Class name for every button of this type. Value: <b>backMenuButton</b>
---------------------	---

## Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG_ID_PREFIX
-----------------

## Constructor Summary

public	<a href="#">BackMenuButton</a> () Construct a new button that can be used to go up one level in the menu structure, with a default ID.
public	<a href="#">BackMenuButton</a> (java.lang.String id) Construct a new button that can be used to go up one level in the menu structure.

## Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Go up one level in the menu.
------	--

**Methods inherited from class** [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** [io.ashton.fastpress.client.fast.FastPressElement](#)

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** [com.google.gwt.user.client.ui.Composite](#)

[claimElement](#), [getWidget](#), [initializeClaimedElement](#), [initWidget](#), [isAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [render](#), [render](#), [resolvePotentialElement](#), [setWidget](#)

**Methods inherited from class** [com.google.gwt.user.client.ui.Widget](#)

[addAttachHandler](#), [addBitlessDomHandler](#), [addDomHandler](#), [addHandler](#), [asWidget](#), [asWidgetOrNull](#), [createHandlerManager](#), [delegateEvent](#), [doAttachChildren](#), [doDetachChildren](#), [fireEvent](#), [getHandlerCount](#), [getLayoutData](#), [getParent](#), [isAttached](#), [isOrWasAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [onLoad](#), [onUnload](#), [removeFromParent](#), [setLayoutData](#), [sinkEvents](#)

**Methods inherited from class** [com.google.gwt.user.client.ui.UIObject](#)

[addStyleDependentName](#), [addStyleName](#), [ensureDebugId](#), [ensureDebugId](#), [ensureDebugId](#), [getAbsoluteLeft](#), [getAbsoluteTop](#), [getElement](#), [getOffsetHeight](#), [getOffsetWidth](#), [getStyleElement](#), [getStyleName](#), [getStyleName](#), [getStylePrimaryName](#), [getStylePrimaryName](#), [getTitle](#), [isVisible](#), [isVisible](#), [onEnsureDebugId](#), [removeStyleDependentName](#), [removeStyleName](#), [resolvePotentialElement](#), [setElement](#), [setElement](#), [setHeight](#), [setPixelSize](#), [setSize](#), [setStyleDependentName](#), [setStyleName](#), [setStyleName](#), [setStyleName](#), [setStyleName](#), [setStylePrimaryName](#), [setStylePrimaryName](#), [setTitle](#), [setVisible](#), [setVisible](#), [setWidth](#), [sinkBitlessEvent](#), [sinkEvents](#), [toString](#), [unsinkEvents](#)

**Methods inherited from class** [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

**Methods inherited from interface** [com.google.gwt.user.client.ui.HasVisibility](#)

[isVisible](#), [setVisible](#)

**Methods inherited from interface** [com.google.gwt.user.client.EventListener](#)

[onBrowserEvent](#)

**Methods inherited from interface** [com.google.gwt.event.logical.shared.HasAttachHandlers](#)

[addAttachHandler](#), [isAttached](#)

**Methods inherited from interface** [com.google.gwt.event.shared.HasHandlers](#)

[fireEvent](#)

**Methods inherited from interface** [com.google.gwt.user.client.ui.IsWidget](#)

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** io.ashton.fastpress.client.fast.PressHandler

onPress

## Fields

### STYLE\_NAME

```
public static final java.lang.String STYLE_NAME
```

Class name for every button of this type.  
Constant value: **backMenuButton**

## Constructors

### BackMenuButton

```
public BackMenuButton()
```

Construct a new button that can be used to go up one level in the menu structure, with a default ID.

### BackMenuButton

```
public BackMenuButton(java.lang.String id)
```

Construct a new button that can be used to go up one level in the menu structure.

**Parameters:**

id - The ID for the button. When null, "backMenuButton" is used as the ID for the element.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Go up one level in the menu.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons Class BackStopDefiningProtocolButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- io.ashton.fastpress.client.fast.FastPressElement
                  |
                  +- nl.tue.fingerpaint.client.gui.buttons.FastButton
                      |
                      +- nl.tue.fingerpaint.client.gui.buttons.BackStopDefiningProtocolButton
  
```

### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **BackStopDefiningProtocolButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to go up one level in the menu structure and stop defining a protocol.

## Field Summary

protected	<a href="#">as</a> Reference to the model.
-----------	---

### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">BackStopDefiningProtocolButton</a> ( <a href="#">ApplicationState</a> appState) Construct a new button that can be used to go up one level in the menu structure and stop defining a protocol.
--------	---

## Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Go up one level in the menu and stop defining a protocol.
------	---

### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable



```
claimElement, initializeClaimedElement, render, render
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers`

```
addPressHandler
```

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Fields

**as**

```
protected nl.tue.fingerpaint.client.model.ApplicationState as
```

Reference to the model. Used to change if the user is defining a protocol.

## Constructors

**BackStopDefiningProtocolButton**

```
public BackStopDefiningProtocolButton(ApplicationState appState)
```

Construct a new button that can be used to go up one level in the menu structure and stop defining a protocol.

**Parameters:**

`appState` - Reference to the model. Used to change if the user is defining a protocol.

## Methods

**onPress**

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Go up one level in the menu and stop defining a protocol.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons Class CancelCompareButton

```

java.lang.Object
  |--com.google.gwt.user.client.ui.UIObject
    |--com.google.gwt.user.client.ui.Widget
      |--com.google.gwt.user.client.ui.Composite
        |--io.ashton.fastpress.client.fast.FastPressElement
          |--nl.tue.fingerpaint.client.gui.buttons.FastButton
            |--nl.tue.fingerpaint.client.gui.buttons.CancelCompareButton
  
```

### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **CancelCompareButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to cancel the comparing.

## Field Summary

protected final	<a href="#">selectionModel</a> SelectionModel of the com.google.gwt.user.cellview.client.CellList that is used to make a selection of results to compare.
-----------------	--

## Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG_ID_PREFIX
-----------------

## Constructor Summary

public	<a href="#">CancelCompareButton</a> (com.google.gwt.view.client.MultiSelectionModel selectionModel) Construct a new button that can be used to cancel comparing two results.
--------	---

## Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Unselects all selected items and hides the popup.
------	---

## Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

```
claimElement, initializeClaimedElement, render, render
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.HasPressHandlers`

```
addPressHandler
```

#### Methods inherited from interface `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Fields

### selectionModel

```
protected final com.google.gwt.view.client.MultiSelectionModel selectionModel
```

SelectionModel of the `com.google.gwt.user.cellview.client.CellList` that is used to make a selection of results to compare. Used to deselect items when this button is clicked.

## Constructors

### CancelCompareButton

```
public CancelCompareButton(com.google.gwt.view.client.MultiSelectionModel  
selectionModel)
```

Construct a new button that can be used to cancel comparing two results.

#### Parameters:

`selectionModel` - SelectionModel of the `com.google.gwt.user.cellview.client.CellList` that is used to make a selection of results to compare. Used to deselect items when this button is clicked.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Unselects all selected items and hides the popup.

#### Parameters:

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class CancelSaveResultsButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.CancelSaveResultsButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **CancelSaveResultsButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that resides on an save item panel to cancel the current save.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">CancelSaveResultsButton</a> ( ) Creates a new button to cancel the current saving process.
--------	---

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Clears the name, hides the panel and disables the Save button
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

#### Methods inherited from interface com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

#### Methods inherited from interface io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Constructors

### CancelSaveResultsButton

```
public CancelSaveResultsButton()
```

Creates a new button to cancel the current saving process.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Clears the name, hides the panel and disables the Save button

## nl.tue.fingerpaint.client.gui.buttons

### Class CircleDrawingToolToggleButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastToggleButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.CircleDrawingToolToggleButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class CircleDrawingToolToggleButton

extends [FastToggleButton](#)

implements [io.ashton.fastpress.client.fast.HasPressHandlers](#), [com.google.gwt.user.client.ui.IsRenderable](#), [com.google.gwt.user.client.EventListener](#), [com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.ui.IsWidget](#), [com.google.gwt.user.client.ui.HasVisibility](#), [io.ashton.fastpress.client.fast.PressHandler](#)

com.google.gwt.user.client.ui.ToggleButton that is used to select the circular drawing tool.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

#### Constructor Summary

public	<a href="#">CircleDrawingToolToggleButton</a> ( <a href="#">Fingerpaint</a> parent, <a href="#">ApplicationState</a> appState) Construct the <a href="#">CircleDrawingTool</a> .
--------	---

#### Method Summary

void	<a href="#">onPress</a> ( <a href="#">io.ashton.fastpress.client.fast.PressEvent</a> event) Changes to the circular drawing tool with the correct cursor size.
void	<a href="#">setColour</a> ( <a href="#">Colour</a> toolColour) Change the colour of the tool in the button.

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastToggleButton](#)

[getElement](#), [getToggleButton](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [io.ashton.fastpress.client.fast.FastPressElement](#)



addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

#### Methods inherited from interface com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Constructors

### CircleDrawingToolToggleButton

```
public CircleDrawingToolToggleButton(Fingerpaint parent,  
                                     ApplicationState appState)
```

Construct the [CircleDrawingTool](#).

**Parameters:**

`parent` - A reference to the Fingerpaint class.

`appState` - Reference to the model that holds the state of the application.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Changes to the circular drawing tool with the correct cursor size.

**Parameters:**

`event` - The event that has fired.

### setColour

```
public void setColour(Colour toolColour)
```

Change the colour of the tool in the button.

**Parameters:**

`toolColour` - The (new) colour for the tool in the button. When null, the colour will be reset and thus, the default colour will be used.

## nl.tue.fingerpaint.client.gui.buttons Class CloseCompareButton

```

java.lang.Object
  |--com.google.gwt.user.client.ui.UIObject
    |--com.google.gwt.user.client.ui.Widget
      |--com.google.gwt.user.client.ui.Composite
        |--io.ashton.fastpress.client.fast.FastPressElement
          |--nl.tue.fingerpaint.client.gui.buttons.FastButton
            |--nl.tue.fingerpaint.client.gui.buttons.CloseCompareButton
  
```

### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

### public class **CloseCompareButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to cancel the comparing.

## Field Summary

protected final	<a href="#">selectionModel</a> SelectionModel of the com.google.gwt.user.cellview.client.CellList that is used to make a selection of results to compare.
-----------------	--

### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG_ID_PREFIX
-----------------

## Constructor Summary

public	<a href="#">CloseCompareButton</a> (com.google.gwt.view.client.MultiSelectionModel selectionModel) Construct a new button that can be used to cancel comparing two results.
--------	--

## Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Unselects all selected items and hides the panel.
------	---

### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

<a href="#">getButton</a> , <a href="#">getElement</a> , <a href="#">onDisablePressStyle</a> , <a href="#">onEnablePressStyle</a> , <a href="#">onHoldPressDownStyle</a> , <a href="#">onHoldPressOffStyle</a> , <a href="#">setEnabled</a>
---

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

```
claimElement, initializeClaimedElement, render, render
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.HasPressHandlers`

```
addPressHandler
```

#### Methods inherited from interface `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Fields

### selectionModel

```
protected final com.google.gwt.view.client.MultiSelectionModel selectionModel
```

SelectionModel of the `com.google.gwt.user.cellview.client.CellList` that is used to make a selection of results to compare. Used to deselect items when this button is clicked.

## Constructors

### CloseCompareButton

```
public CloseCompareButton(com.google.gwt.view.client.MultiSelectionModel  
selectionModel)
```

Construct a new button that can be used to cancel comparing two results.

#### Parameters:

`selectionModel` - SelectionModel of the `com.google.gwt.user.cellview.client.CellList` that is used to make a selection of results to compare. Used to deselect items when this button is clicked.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Unselects all selected items and hides the panel.

#### Parameters:

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class CloseLoadButton

```

java.lang.Object
  |--com.google.gwt.user.client.ui.UIObject
    |--com.google.gwt.user.client.ui.Widget
      |--com.google.gwt.user.client.ui.Composite
        |--io.ashton.fastpress.client.fast.FastPressElement
          |--nl.tue.fingerpaint.client.gui.buttons.FastButton
            |--nl.tue.fingerpaint.client.gui.buttons.CloseLoadButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **CloseLoadButton**

extends [FastButton](#)

implements [io.ashton.fastpress.client.fast.HasPressHandlers](#), [com.google.gwt.user.client.ui.IsRenderable](#), [com.google.gwt.user.client.EventListener](#), [com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.ui.IsWidget](#), [com.google.gwt.user.client.ui.HasVisibility](#), [io.ashton.fastpress.client.fast.PressHandler](#)

Button that can be used to close a panel in which "things" from the local storage can be selected. These "things" may be protocols, distributions, ...

#### Fields inherited from class [com.google.gwt.user.client.ui.UIObject](#)

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">CloseLoadButton()</a> Construct a new button that can be used to close a popup panel.
--------	--

### Method Summary

void	<a href="#">onPress</a> ( <a href="#">io.ashton.fastpress.client.fast.PressEvent</a> event) Removes the loading panel from the screen
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [io.ashton.fastpress.client.fast.FastPressElement](#)

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Constructors

### CloseLoadButton

```
public CloseLoadButton()
```

Construct a new button that can be used to close a popup panel.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Removes the loading panel from the screen

**Parameters:**

`event` - The event that has fired.



## nl.tue.fingerpaint.client.gui.buttons

### Class CloseResultsButton

```

java.lang.Object
  +-com.google.gwt.user.client.ui.UIObject
    +-com.google.gwt.user.client.ui.Widget
      +-com.google.gwt.user.client.ui.Composite
        +-io.ashton.fastpress.client.fast.FastPressElement
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            +-nl.tue.fingerpaint.client.gui.buttons.CloseResultsButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **CloseResultsButton**

extends [FastButton](#)

implements [io.ashton.fastpress.client.fast.HasPressHandlers](#), [com.google.gwt.user.client.ui.IsRenderable](#), [com.google.gwt.user.client.EventListener](#), [com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.ui.IsWidget](#), [com.google.gwt.user.client.ui.HasVisibility](#), [io.ashton.fastpress.client.fast.PressHandler](#)

Button that can be used to close the remove results pop-up panel.

#### Fields inherited from class [com.google.gwt.user.client.ui.UIObject](#)

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">CloseResultsButton()</a> Construct a new button that can be used to close the remove results pop-up panel.
--------	---

### Method Summary

void	<a href="#">onPress</a> ( <a href="#">io.ashton.fastpress.client.fast.PressEvent</a> event) Removes the loading panel from the screen
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [io.ashton.fastpress.client.fast.FastPressElement](#)

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [com.google.gwt.user.client.ui.Composite](#)

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

#### Methods inherited from interface com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

#### Methods inherited from interface io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Constructors

### CloseResultsButton

```
public CloseResultsButton()
```

Construct a new button that can be used to close the remove results pop-up panel.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Removes the loading panel from the screen

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class CloseSaveButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.CloseSaveButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **CloseSaveButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to close the save results or overwrite pop-up panel.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">CloseSaveButton()</a> Construct a new button that can be used to close the save results or overwrite pop-up panel.
--------	---

### Method Summary

void	<a href="#">onPress(io.ashton.fastpress.client.fast.PressEvent event)</a> Closes the overwrite panel, shows the save panel and selects the previously entered name.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

#### Methods inherited from interface com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

#### Methods inherited from interface io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Constructors

### CloseSaveButton

```
public CloseSaveButton()
```

Construct a new button that can be used to close the save results or overwrite pop-up panel.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Closes the overwrite panel, shows the save panel and selects the previously entered name.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class CloseSingleGraphViewButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.CloseSingleGraphViewButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **CloseSingleGraphViewButton**

extends [FastButton](#)

implements [io.ashton.fastpress.client.fast.HasPressHandlers](#), [com.google.gwt.user.client.ui.IsRenderable](#), [com.google.gwt.user.client.EventListener](#), [com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.ui.IsWidget](#), [com.google.gwt.user.client.ui.HasVisibility](#), [io.ashton.fastpress.client.fast.PressHandler](#)

Button that can be used to close the performance pop-up of a single graph.

#### Fields inherited from class [com.google.gwt.user.client.ui.UIObject](#)

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">CloseSingleGraphViewButton()</a> Construct a new button that can be used to close the performance pop-up of a single graph.
--------	--

### Method Summary

void	<a href="#">onPress</a> ( <a href="#">io.ashton.fastpress.client.fast.PressEvent</a> event) Hides the panel.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [io.ashton.fastpress.client.fast.FastPressElement](#)

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [com.google.gwt.user.client.ui.Composite](#)

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers



```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Constructors

### CloseSingleGraphViewButton

```
public CloseSingleGraphViewButton()
```

Construct a new button that can be used to close the performance pop-up of a single graph.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Hides the panel.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class CompareButton

```

java.lang.Object
├── com.google.gwt.user.client.ui.UIObject
│   ├── com.google.gwt.user.client.ui.Widget
│   │   ├── com.google.gwt.user.client.ui.Composite
│   │   │   ├── io.ashton.fastpress.client.fast.FastPressElement
│   │   │   │   └── nl.tue.fingerpaint.client.gui.buttons.FastButton
│   │   │   │       └── nl.tue.fingerpaint.client.gui.buttons.CompareButton

```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

```

public class CompareButton
extends FastButton
implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable,
com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers,
com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility,
io.ashton.fastpress.client.fast.PressHandler

```

Button that can be used to compare the performance of the selected mixing runs.

### Field Summary

protected	<a href="#">fp</a>	Reference to the endpoint.
-----------	--------------------	----------------------------

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">CompareButton</a> ( <a href="#">Fingerpaint</a> parent)	Construct a new button that can be used to compare the performance of the selected mixing
--------	---	---

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event)	Plots the selected performance results in one graph.
------	--	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Fields

### **fp**

`protected nl.tue.fingerpaint.client.Fingerpaint fp`

Reference to the endpoint. Used to call the create graph functionality.

## Constructors

### **CompareButton**

`public CompareButton(Fingerpaint parent)`

Construct a new button that can be used to compare the performance of the selected mixing

**Parameters:**

parent - Reference to the endpoint, used to call the create graph functionality.

## Methods

### **onPress**

`public void onPress(io.ashton.fastpress.client.fast.PressEvent event)`

Plots the selected performance results in one graph. Adds the names of the selected runs to the legend, and their results to the graph, and finally shows the panel containing the graphs.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class ComparePerformanceButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.ComparePerformanceButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **ComparePerformanceButton**

extends [FastButton](#)

implements [io.ashton.fastpress.client.fast.HasPressHandlers](#), [com.google.gwt.user.client.ui.IsRenderable](#), [com.google.gwt.user.client.EventListener](#), [com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.ui.IsWidget](#), [com.google.gwt.user.client.ui.HasVisibility](#), [io.ashton.fastpress.client.fast.PressHandler](#)

Button that can be used to compare the performance of previously saved mixing runs.

#### Fields inherited from class [com.google.gwt.user.client.ui.UIObject](#)

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">ComparePerformanceButton</a> ( <a href="#">Fingerpaint</a> parent) Construct a new button that can be used to compare the performance of previously saved mixing runs.
--------	---

### Method Summary

void	<a href="#">onPress</a> ( <a href="#">io.ashton.fastpress.client.fast.PressEvent</a> event) Creates a list containing the names of all locally stored results.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [io.ashton.fastpress.client.fast.FastPressElement](#)

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Constructors

### ComparePerformanceButton

```
public ComparePerformanceButton(Fingerpaint parent)
```

Construct a new button that can be used to compare the performance of previously saved mixing runs. When clicked, it opens the [GuiState.compareSelectPopupPanel](#) pop-up.

**Parameters:**

parent - Reference to the entrypoint, used to export the graphs.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Creates a list containing the names of all locally stored results.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons Class DistributionsButton

```

java.lang.Object
  |--com.google.gwt.user.client.ui.UIObject
    |--com.google.gwt.user.client.ui.Widget
      |--com.google.gwt.user.client.ui.Composite
        |--io.ashton.fastpress.client.fast.FastPressElement
          |--nl.tue.fingerpaint.client.gui.buttons.FastButton
            |--nl.tue.fingerpaint.client.gui.buttons.DistributionsButton
  
```

### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

### public class **DistributionsButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to enter the submenu with distribution related actions.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">DistributionsButton()</a> Construct a new button that can be used to enter the submenu with distribution related actions.
--------	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Enter the submenu with distribution related actions.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)



**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Constructors

### DistributionsButton

```
public DistributionsButton()
```

Construct a new button that can be used to enter the submenu with distribution related actions.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Enter the submenu with distribution related actions.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class ExportDistributionButton

```

java.lang.Object
  |--com.google.gwt.user.client.ui.UIObject
    |--com.google.gwt.user.client.ui.Widget
      |--com.google.gwt.user.client.ui.Composite
        |--io.ashton.fastpress.client.fast.FastPressElement
          |--nl.tue.fingerpaint.client.gui.buttons.FastButton
            |--nl.tue.fingerpaint.client.gui.buttons.ExportDistributionButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **ExportDistributionButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to export a distribution.

### Field Summary

protected	<a href="#">as</a> Reference to the endpoint.
-----------	--

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">ExportDistributionButton</a> ( <a href="#">ApplicationState</a> parent) Construct a new button that can be used to export multiple graphs.
--------	---

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Exports the currently shown distribution to an external svg file.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** io.ashton.fastpress.client.fast.PressHandler

onPress

## Fields

**as**protected nl.tue.fingerpaint.client.model.ApplicationState **as**

Reference to the endpoint. Used to export the graphs.

## Constructors

**ExportDistributionButton**public **ExportDistributionButton**([ApplicationState](#) parent)

Construct a new button that can be used to export multiple graphs.

**Parameters:**

parent - Reference to the endpoint, used to export the graphs.

## Methods

**onPress**public void **onPress**(io.ashton.fastpress.client.fast.PressEvent event)

Exports the currently shown distribution to an external svg file.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class ExportMultipleGraphsButton

```

java.lang.Object
├── com.google.gwt.user.client.ui.UIObject
│   ├── com.google.gwt.user.client.ui.Widget
│   │   ├── com.google.gwt.user.client.ui.Composite
│   │   │   ├── io.ashton.fastpress.client.fast.FastPressElement
│   │   │   │   ├── nl.tue.fingerpaint.client.gui.buttons.FastButton
│   │   │   │   │   └── nl.tue.fingerpaint.client.gui.buttons.ExportMultipleGraphsButton

```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **ExportMultipleGraphsButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to export multiple graphs.

### Field Summary

protected	<a href="#">fp</a> Reference to the endpoint.
-----------	--

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">ExportMultipleGraphsButton</a> ( <a href="#">Fingerpaint</a> parent) Construct a new button that can be used to export multiple graphs.
--------	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Exports the graph to an external svg file.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Fields

### **fp**

`protected nl.tue.fingerpaint.client.Fingerpaint fp`

Reference to the endpoint. Used to export the graphs.

## Constructors

### **ExportMultipleGraphsButton**

`public ExportMultipleGraphsButton(Fingerpaint parent)`

Construct a new button that can be used to export multiple graphs.

**Parameters:**

parent - Reference to the endpoint, used to export the graphs.

## Methods

### **onPress**

`public void onPress(io.ashton.fastpress.client.fast.PressEvent event)`

Exports the graph to an external svg file.

**Parameters:**

event - The event that has fired.



## nl.tue.fingerpaint.client.gui.buttons

### Class ExportSingleGraphButton

```

java.lang.Object
  |--com.google.gwt.user.client.ui.UIObject
    |--com.google.gwt.user.client.ui.Widget
      |--com.google.gwt.user.client.ui.Composite
        |--io.ashton.fastpress.client.fast.FastPressElement
          |--nl.tue.fingerpaint.client.gui.buttons.FastButton
            |--nl.tue.fingerpaint.client.gui.buttons.ExportSingleGraphButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **ExportSingleGraphButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to export the image of the current mixing performance.

### Field Summary

protected	<a href="#">fp</a>	Reference to the endpoint.
-----------	--------------------	----------------------------

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">ExportSingleGraphButton</a> ( <a href="#">Fingerpaint</a> parent)	Construct a new button that can be used to export the image of the current mixing performance.
--------	---	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event)	Exports the graph to an external svg file.
------	--	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

```
claimElement, initializeClaimedElement, render, render
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.HasPressHandlers`

```
addPressHandler
```

#### Methods inherited from interface `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Fields

### **fp**

protected `nl.tue.fingerpaint.client.Fingerpaint` **fp**

Reference to the endpoint. Used to call the export functionality.

## Constructors

### **ExportSingleGraphButton**

```
public ExportSingleGraphButton(Fingerpaint parent)
```

Construct a new button that can be used to export the image of the current mixing performance.

**Parameters:**

parent - Reference to the endpoint, used to call the export functionality.

## Methods

### **onPress**

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Exports the graph to an external svg file.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class FastButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- io.ashton.fastpress.client.fast.FastPressEvent
                  |
                  +- nl.tue.fingerpaint.client.gui.buttons.FastButton
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### Direct Known Subclasses:

[ToggleColourButton](#), [CloseResultsButton](#), [ResetProtocolButton](#), [LoadProtocolButton](#), [RemoveSavedProtButton](#), [BackStopDefiningProtocolButton](#), [ToolSelectButton](#), [SaveResultsButton](#), [LoadResultsButton](#), [RemoveSavedResultsButton](#), [RemoveInitDistButton](#), [ExportSingleGraphButton](#), [ToggleDefineProtocol](#), [ProtocolsButton](#), [DistributionsButton](#), [ExportDistributionButton](#), [MenuToggleButton](#), [MixNowButton](#), [SaveDistributionButton](#), [CloseSingleGraphViewButton](#), [CompareButton](#), [LoadInitDistButton](#), [SaveProtocolButton](#), [CancelCompareButton](#), [CloseSaveButton](#), [OverwriteSaveButton](#), [CloseCompareButton](#), [CancelSaveResultsButton](#), [SaveItemPanelButton](#), [ComparePerformanceButton](#), [NewCompareButton](#), [ExportMultipleGraphsButton](#), [ResultsButton](#), [ViewSingleGraphButton](#), [BackMenuButton](#), [ResetDistButton](#), [CloseLoadButton](#)

```

public class FastButton
extends io.ashton.fastpress.client.fast.FastPressEvent
  
```

A FastButton is an element that can be used like a com.google.gwt.user.client.ui.Button, but on touch devices it will respond immediately to touches instead of with a delay. This type of button should be used anywhere instead of "regular" buttons to ensure a "snappy" experience and fix weird bugs.

Note: this class basically wraps a com.google.gwt.user.client.ui.Button element that can be accessed through the [getButton\(\)](#) method.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">FastButton</a> ()	Create a new button with no text in it.
public	<a href="#">FastButton</a> (java.lang.String btnText)	Create a new button with the given text in it.
public	<a href="#">FastButton</a> (com.google.gwt.user.client.ui.Button child)	Create a new FastButton that wraps the given com.google.gwt.user.client.ui.Button.

### Method Summary

com.google.gwt.user.client.ui.Button	<a href="#">getButton()</a> Return a reference to the actual com.google.gwt.user.client.ui.Button wrapped by this class.
com.google.gwt.user.client.Element	<a href="#">getElement()</a>
void	<a href="#">onDisablePressStyle()</a>
void	<a href="#">onEnablePressStyle()</a>
void	<a href="#">onHoldPressDownStyle()</a>
void	<a href="#">onHoldPressOffStyle()</a>
void	<a href="#">setEnabled(boolean enabled)</a>

**Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement**

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class com.google.gwt.user.client.ui.Composite**

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class com.google.gwt.user.client.ui.Widget**

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class com.google.gwt.user.client.ui.UIObject**

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class java.lang.Object**

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility**

isVisible, setVisible

**Methods inherited from interface** `com.google.gwt.user.client.EventListener``onBrowserEvent`**Methods inherited from interface** `com.google.gwt.event.logical.shared.HasAttachHandlers``addAttachHandler, isAttached`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `com.google.gwt.user.client.ui.IsWidget``asWidget`**Methods inherited from interface** `com.google.gwt.user.client.ui.IsRenderable``claimElement, initializeClaimedElement, render, render`**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`

## Constructors

### FastButton

```
public FastButton()
```

Create a new button with no text in it.

### FastButton

```
public FastButton(java.lang.String btnText)
```

Create a new button with the given text in it.

**Parameters:**

`btnText` - Text to display in the button.

### FastButton

```
public FastButton(com.google.gwt.user.client.ui.Button child)
```

Create a new FastButton that wraps the given `com.google.gwt.user.client.ui.Button`.

**Parameters:**

`child` - The Button to wrap.

## Methods

---

(continued from last page)

## getButton

```
public com.google.gwt.user.client.ui.Button getButton()
```

Return a reference to the actual `com.google.gwt.user.client.ui.Button` wrapped by this class.

### Returns:

a reference to the wrapped `com.google.gwt.user.client.ui.Button`

---

## getElement

```
public com.google.gwt.user.client.Element getElement()
```

---

## setEnabled

```
public void setEnabled(boolean enabled)
```

---

## onHoldPressDownStyle

```
public void onHoldPressDownStyle()
```

Implement the handler for pressing but NOT releasing the button. Normally you just want to show some CSS style change to alert the user the element is active but not yet pressed **ONLY FOR STYLE CHANGE** - Will briefly be called onClick  
TIP: Don't make a dramatic style change. Take note that if a user is just trying to scroll, and start on the element and then scrolls off, we may not want to distract them too much. If a user does scroll off the element,

---

## onHoldPressOffStyle

```
public void onHoldPressOffStyle()
```

Implement the handler for release of press. This should just be some CSS or Style change. **ONLY FOR STYLE CHANGE** - Will briefly be called onClick TIP: This should just go back to the normal style.

---

## onDisablePressStyle

```
public void onDisablePressStyle()
```

Change styling to disabled

---

## onEnablePressStyle

```
public void onEnablePressStyle()
```

Change styling to enabled TIP:

---

## nl.tue.fingerpaint.client.gui.buttons

### Class FastToggleButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- io.ashton.fastpress.client.fast.FastPressElement
                  |
                  +- nl.tue.fingerpaint.client.gui.buttons.FastToggleButton
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### Direct Known Subclasses:

[CircleDrawingToolToggleButton](#), [SquareDrawingToolToggleButton](#)

```

public class FastToggleButton
  extends io.ashton.fastpress.client.fast.FastPressElement
  
```

A FastButton is an element that can be used like a `com.google.gwt.user.client.ui.ToggleButton`, but on touch devices it will respond immediately to touches instead of with a delay. This type of button should be used anywhere instead of "regular" buttons to ensure a "snappy" experience and fix weird bugs.

Note: this class basically wraps a `com.google.gwt.user.client.ui.ToggleButton` element that can be accessed through the [getToggleButton\(\)](#) field.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">FastToggleButton()</a> Create a new button with no text in it.
public	<a href="#">FastToggleButton(java.lang.String upText, java.lang.String downText)</a> Create a new button with the given text in it.
public	<a href="#">FastToggleButton(com.google.gwt.user.client.ui.ToggleButton child)</a> Create a new FastToggleButton that wraps the given <code>com.google.gwt.user.client.ui.ToggleButton</code> .

### Method Summary

com.google.gwt.user.client.Element	<a href="#">getElement()</a>
com.google.gwt.user.client.ui.ToggleButton	<a href="#">getToggleButton()</a> Return a reference to the actual <code>com.google.gwt.user.client.ui.ToggleButton</code> wrapped by this class.



void	<a href="#">onDisablePressStyle()</a>
void	<a href="#">onEnablePressStyle()</a>
void	<a href="#">onHoldPressDownStyle()</a>
void	<a href="#">onHoldPressOffStyle()</a>
void	<a href="#">setEnabled</a> (boolean enabled)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressElement

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

## Constructors

### FastToggleButton

```
public FastToggleButton()
```

Create a new button with no text in it.

### FastToggleButton

```
public FastToggleButton(java.lang.String upText,
                        java.lang.String downText)
```

Create a new button with the given text in it.

**Parameters:**

upText - Text to show when the toggle button is not down.

downText - Text to show when the toggle button is down.

### FastToggleButton

```
public FastToggleButton(com.google.gwt.user.client.ui.ToggleButton child)
```

Create a new FastToggleButton that wraps the given com.google.gwt.user.client.ui.ToggleButton.

**Parameters:**

child - The ToggleButton to wrap.

## Methods

---

(continued from last page)

## getElement

```
public com.google.gwt.user.client.Element getElement()
```

---

## getToggleButton

```
public com.google.gwt.user.client.ui.ToggleButton getToggleButton()
```

Return a reference to the actual `com.google.gwt.user.client.ui.ToggleButton` wrapped by this class.

**Returns:**

a reference to the wrapped `com.google.gwt.user.client.ui.ToggleButton`

---

## setEnabled

```
public void setEnabled(boolean enabled)
```

---

## onHoldPressDownStyle

```
public void onHoldPressDownStyle()
```

Implement the handler for pressing but NOT releasing the button. Normally you just want to show some CSS style change to alert the user the element is active but not yet pressed **ONLY FOR STYLE CHANGE** - Will briefly be called onClick  
**TIP:** Don't make a dramatic style change. Take note that if a user is just trying to scroll, and start on the element and then scrolls off, we may not want to distract them too much. If a user does scroll off the element,

---

## onHoldPressOffStyle

```
public void onHoldPressOffStyle()
```

Implement the handler for release of press. This should just be some CSS or Style change. **ONLY FOR STYLE CHANGE** - Will briefly be called onClick **TIP:** This should just go back to the normal style.

---

## onDisablePressStyle

```
public void onDisablePressStyle()
```

Change styling to disabled

---

## onEnablePressStyle

```
public void onEnablePressStyle()
```

Change styling to enabled **TIP:**

---

## nl.tue.fingerpaint.client.gui.buttons

### Class LoadInitDistButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
    |
    +- com.google.gwt.user.client.ui.Widget
      |
      +- com.google.gwt.user.client.ui.Composite
        |
        +- io.ashton.fastpress.client.fast.FastPressElement
          |
          +- nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +- nl.tue.fingerpaint.client.gui.buttons.LoadInitDistButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **LoadInitDistButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to load a previously saved initial concentration distribution.

### Field Summary

protected	<a href="#">as</a> Reference to the model.
-----------	---

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">LoadInitDistButton</a> ( <a href="#">ApplicationState</a> appState) Construct a new button that can be used to load a previously saved initial concentration distribution.
--------	---

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Creates a panel with the names of all locally stored distributions.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

```
claimElement, initializeClaimedElement, render, render
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.HasPressHandlers`

```
addPressHandler
```

#### Methods inherited from interface `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Fields

### as

```
protected nl.tue.fingerpaint.client.model.ApplicationState as
```

Reference to the model. Used to to retrieve the currently selected geometry

## Constructors

### LoadInitDistButton

```
public LoadInitDistButton(ApplicationState appState)
```

Construct a new button that can be used to load a previously saved initial concentration distribution.

#### Parameters:

`appState` - Reference to the model, used to retrieve the currently selected geometry.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Creates a panel with the names of all locally stored distributions.

#### Parameters:

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class LoadProtocolButton

```

java.lang.Object
├── com.google.gwt.user.client.ui.UIObject
│   ├── com.google.gwt.user.client.ui.Widget
│   │   ├── com.google.gwt.user.client.ui.Composite
│   │   │   ├── io.ashton.fastpress.client.fast.FastPressElement
│   │   │   │   ├── nl.tue.fingerpaint.client.gui.buttons.FastButton
│   │   │   │   │   └── nl.tue.fingerpaint.client.gui.buttons.LoadProtocolButton

```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **LoadProtocolButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to load a protocol from the local storage.

### Field Summary

protected	<a href="#">as</a> Reference to the model.
-----------	---

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">LoadProtocolButton</a> ( <a href="#">ApplicationState</a> appState) Construct a new button that can be used to load a protocol from the local storage.
--------	---

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Creates a panel with the names of all locally stored distributions.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render



**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** io.ashton.fastpress.client.fast.PressHandler

onPress

## Fields

**as**protected nl.tue.fingerpaint.client.model.ApplicationState **as**

Reference to the model. Used to get the currently selected geometry.

## Constructors

**LoadProtocolButton**public **LoadProtocolButton**([ApplicationState](#) appState)

Construct a new button that can be used to load a protocol from the local storage.

**Parameters:**

appState - Reference to the model, used to retrieve the currently selected geometry.

## Methods

**onPress**public void **onPress**(io.ashton.fastpress.client.fast.PressEvent event)

Creates a panel with the names of all locally stored distributions.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class LoadResultsButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.LoadResultsButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **LoadResultsButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to load (and recompute) results from the local storage.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">LoadResultsButton()</a> Construct a new button that can be used to load a result from the local storage.
--------	---

### Method Summary

void	<a href="#">onPress(io.ashton.fastpress.client.fast.PressEvent event)</a> Creates a panel with the names of all locally stored results.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Constructors

### LoadResultsButton

```
public LoadResultsButton()
```

Construct a new button that can be used to load a result from the local storage.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Creates a panel with the names of all locally stored results.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class MenuToggleButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.MenuToggleButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **MenuToggleButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

This button is used to show and hide the menu panel in the application.

Field Summary	
protected	<a href="#">buttonAnimation</a> Animation to rotate the button.
public static final	<a href="#">DURATION</a> How long the sliding animation takes. Value: <b>300</b>
public static final	<a href="#">ELEMENT_ID</a> The ID of the button element. Value: <b>menuToggleButton</b>
public static final	<a href="#">HIDDEN_ANGLE</a> At which angle the toggle button content is when the menu is hidden. Value: <b>0</b>
protected	<a href="#">menuAnimation</a> Animation to hide menu panel.
protected	<a href="#">menuPanel</a> The MenuPanel that is shown/hidden.

protected	<a href="#">shown</a> Indicate if the menu is shown or not.
public static final	<a href="#">SHOWN_ANGLE</a> At which angle the toggle button content is when the menu is shown. Value: <b>135</b>

**Fields inherited from class** [com.google.gwt.user.client.ui.UIObject](#)

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">MenuToggleButton</a> ( <a href="#">com.google.gwt.user.client.ui.FlowPanel</a> menuPanelWrapper) Construct a new <a href="#">MenuToggleButton</a> .
--------	--

## Method Summary

void	<a href="#">onPress</a> ( <a href="#">io.ashton.fastpress.client.fast.PressEvent</a> event) Toggles the visibility of the main menu.
void	<a href="#">refreshMenuSize</a> () Internally update the size of the element that is animated.

**Methods inherited from class** [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)**Methods inherited from class** [io.ashton.fastpress.client.fast.FastPressElement](#)[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)**Methods inherited from class** [com.google.gwt.user.client.ui.Composite](#)[claimElement](#), [getWidget](#), [initializeClaimedElement](#), [initWidget](#), [isAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [render](#), [render](#), [resolvePotentialElement](#), [setWidget](#)**Methods inherited from class** [com.google.gwt.user.client.ui.Widget](#)[addAttachHandler](#), [addBitlessDomHandler](#), [addDomHandler](#), [addHandler](#), [asWidget](#), [asWidgetOrNull](#), [createHandlerManager](#), [delegateEvent](#), [doAttachChildren](#), [doDetachChildren](#), [fireEvent](#), [getHandlerCount](#), [getLayoutData](#), [getParent](#), [isAttached](#), [isOrWasAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [onLoad](#), [onUnload](#), [removeFromParent](#), [setLayoutData](#), [sinkEvents](#)**Methods inherited from class** [com.google.gwt.user.client.ui.UIObject](#)

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

#### Methods inherited from interface com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

#### Methods inherited from interface io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface io.ashton.fastpress.client.fast.PressHandler

onPress

## Fields

---

(continued from last page)

## ELEMENT\_ID

```
public static final java.lang.String ELEMENT_ID
```

The ID of the button element.  
Constant value: `menuToggleButton`

---

## DURATION

```
public static final int DURATION
```

How long the sliding animation takes.  
Constant value: `300`

---

## HIDDEN\_ANGLE

```
public static final int HIDDEN_ANGLE
```

At which angle the toggle button content is when the menu is hidden.  
Constant value: `0`

---

## SHOWN\_ANGLE

```
public static final int SHOWN_ANGLE
```

At which angle the toggle button content is when the menu is shown.  
Constant value: `135`

---

## shown

```
protected boolean shown
```

Indicate if the menu is shown or not.

---

## menuPanel

```
protected com.google.gwt.user.client.ui.FlowPanel menuPanel
```

The MenuPanel that is shown/hidden.

---

## menuAnimation

```
protected nl.tue.fingerpaint.client.gui.animation.SizeAnimation menuAnimation
```

Animation to hide menu panel.

---

## buttonAnimation

```
protected nl.tue.fingerpaint.client.gui.animation.RotationAnimation buttonAnimation
```

Animation to rotate the button.

---

## Constructors

### MenuToggleButton

```
public MenuToggleButton(com.google.gwt.user.client.ui.FlowPanel menuPanelWrapper)
```

---



---

(continued from last page)

Construct a new [MenuToggleButton](#).

**Parameters:**

menuPanelWrapper - The element to be animated.

## Methods

### **onPress**

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Toggles the visibility of the main menu.

**Parameters:**

event - The event that has fired.

---

### **refreshMenuSize**

```
public void refreshMenuSize()
```

Internally update the size of the element that is animated.

## nl.tue.fingerpaint.client.gui.buttons

### Class MixNowButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.MixNowButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **MixNowButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to execute the current mixing protocol.

### Field Summary

protected	<a href="#">as</a> Reference to the model.
protected	<a href="#">fp</a> Reference to the endpoint.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">MixNowButton</a> ( <a href="#">Fingerpaint</a> parent, <a href="#">ApplicationState</a> appState) Construct a new button that can be used to execute the current mixing protocol.
--------	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Executes the mixing run with the currently defined protocol.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressEvent

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

[claimElement](#), [getWidget](#), [initializeClaimedElement](#), [initWidget](#), [isAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [render](#), [render](#), [resolvePotentialElement](#), [setWidget](#)

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

[addAttachHandler](#), [addBitlessDomHandler](#), [addDomHandler](#), [addHandler](#), [asWidget](#), [asWidgetOrNull](#), [createHandlerManager](#), [delegateEvent](#), [doAttachChildren](#), [doDetachChildren](#), [fireEvent](#), [getHandlerCount](#), [getLayoutData](#), [getParent](#), [isAttached](#), [isOrWasAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [onLoad](#), [onUnload](#), [removeFromParent](#), [setLayoutData](#), [sinkEvents](#)

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

[addStyleDependentName](#), [addStyleName](#), [ensureDebugId](#), [ensureDebugId](#), [ensureDebugId](#), [getAbsoluteLeft](#), [getAbsoluteTop](#), [getElement](#), [getOffsetHeight](#), [getOffsetWidth](#), [getStyleElement](#), [getStyleName](#), [getStyleName](#), [getStylePrimaryName](#), [getStylePrimaryName](#), [getTitle](#), [isVisible](#), [isVisible](#), [onEnsureDebugId](#), [removeStyleDependentName](#), [removeStyleName](#), [resolvePotentialElement](#), [setElement](#), [setElement](#), [setHeight](#), [setPixelSize](#), [setSize](#), [setStyleDependentName](#), [setStyleName](#), [setStyleName](#), [setStyleName](#), [setStylePrimaryName](#), [setStylePrimaryName](#), [setStylePrimaryName](#), [setTitle](#), [setVisible](#), [setVisible](#), [setWidth](#), [sinkBitlessEvent](#), [sinkEvents](#), [toString](#), [unsinkEvents](#)

#### Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

[isVisible](#), [setVisible](#)

#### Methods inherited from interface com.google.gwt.user.client.EventListener

[onBrowserEvent](#)

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

[addAttachHandler](#), [isAttached](#)

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

[fireEvent](#)

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

[asWidget](#)

**Methods inherited from interface** `com.google.gwt.user.client.ui.IsRenderable``claimElement, initializeClaimedElement, render, render`**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Fields

### **fp**

`protected nl.tue.fingerpaint.client.Fingerpaint fp`

Reference to the endpoint. Used to execute the current mixing protocol.

### **as**

`protected nl.tue.fingerpaint.client.model.ApplicationState as`

Reference to the model. Used to retrieve the current mixing protocol from the endpoint.

## Constructors

### **MixNowButton**

```
public MixNowButton(Fingerpaint parent,
                    ApplicationState appState)
```

Construct a new button that can be used to execute the current mixing protocol.

**Parameters:**

`parent` - Reference to the endpoint, used to execute the current mixing protocol.

`appState` - Reference to the model, used to retrieve the current mixing protocol from the parent.

## Methods

### **onPress**

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Executes the mixing run with the currently defined protocol.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class NewCompareButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.NewCompareButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

```
public class NewCompareButton
```

```
extends FastButton
```

```
implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler
```

Button that can be used to start a new comparison.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">NewCompareButton()</a> Construct a new button that can be used to start a new comparison.
--------	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Clears all previously selected results.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Constructors

### NewCompareButton

```
public NewCompareButton()
```

Construct a new button that can be used to start a new comparison. When clicked, it closes [GuiState.comparePopupPanel](#) and opens [GuiState.compareSelectPopupPanel](#).

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Clears all previously selected results.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class OverwriteSaveButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.OverwriteSaveButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **OverwriteSaveButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to overwrite the item that is currently being saved.

### Field Summary

protected	<a href="#">fp</a> Reference to the endpoint.
-----------	--

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">OverwriteSaveButton</a> ( <a href="#">Fingerpaint</a> parent) Construct a new button that can be used to overwrite the item that is currently being saved.
--------	---

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Saves the selected item, shows a notification panel indicating success and hides the overwrite panel.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)



**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

```
claimElement, initializeClaimedElement, render, render
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.HasPressHandlers`

```
addPressHandler
```

#### Methods inherited from interface `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Fields

### **fp**

```
protected nl.tue.fingerpaint.client.Fingerpaint fp
```

Reference to the endpoint. Used to overwrite the item that is currently being saved.

## Constructors

### **OverwriteSaveButton**

```
public OverwriteSaveButton(Fingerpaint parent)
```

Construct a new button that can be used to overwrite the item that is currently being saved. It also shows a dialogue if the save has been successful and hides the overwrite save panel.

#### **Parameters:**

`parent` - Reference to the endpoint, used to overwrite the item that is currently being saved.

## Methods

### **onPress**

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Saves the selected item, shows a notification panel indicating success and hides the overwrite panel.

#### **Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons Class ProtocolsButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.ProtocolsButton
  
```

### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

```

public class ProtocolsButton
extends FastButton
implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable,
com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers,
com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility,
io.ashton.fastpress.client.fast.PressHandler
  
```

Button that can be used to enter the submenu with protocols related actions.

### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">ProtocolsButton()</a> Construct a new button that can be used to enter the submenu with distribution related actions.
--------	--

## Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Enter the submenu with distribution related actions.
------	--

### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Constructors

### ProtocolsButton

```
public ProtocolsButton()
```

Construct a new button that can be used to enter the submenu with distribution related actions.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Enter the submenu with distribution related actions.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class RemoveInitDistButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- io.ashton.fastpress.client.fast.FastPressElement
                  |
                  +- nl.tue.fingerpaint.client.gui.buttons.FastButton
                      |
                      +- nl.tue.fingerpaint.client.gui.buttons.RemoveInitDistButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **RemoveInitDistButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button to initiate the removal of an initial distribution.

### Field Summary

protected	<a href="#">as</a> Reference to the model.
-----------	---

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">RemoveInitDistButton</a> ( <a href="#">ApplicationState</a> appState) Construct a new button that can be used to initiate the removal of an initial distribution.
--------	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Creates a popup panel showing all saved initial distributions.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** io.ashton.fastpress.client.fast.PressHandler

onPress

## Fields

**as**protected nl.tue.fingerpaint.client.model.ApplicationState **as**

Reference to the model. Used to get the saved protocols for the current geometry.

## Constructors

**RemoveInitDistButton**public **RemoveInitDistButton**([ApplicationState](#) appState)

Construct a new button that can be used to initiate the removal of an initial distribution.

**Parameters:**

appState - Reference to the model, used to get the currently selected geometry, which in turn is used in the local storage.

## Methods

**onPress**public void **onPress**(io.ashton.fastpress.client.fast.PressEvent event)

Creates a popup panel showing all saved initial distributions.

**Parameters:**

event - The event that has fired.



## nl.tue.fingerpaint.client.gui.buttons

### Class RemoveSavedProtButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.RemoveSavedProtButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **RemoveSavedProtButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button to initiate the removal of a saved mixing protocol

## Field Summary

protected	<a href="#">as</a> Reference to the model.
-----------	---

## Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG_ID_PREFIX
-----------------

## Constructor Summary

public	<a href="#">RemoveSavedProtButton</a> ( <a href="#">ApplicationState</a> appState) Construct a new button that can be used to initiate the removal of a saved mixing protocol
--------	--

## Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Creates a popup panel showing all saved protocols.
------	--

## Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

<a href="#">getButton</a> , <a href="#">getElement</a> , <a href="#">onDisablePressStyle</a> , <a href="#">onEnablePressStyle</a> , <a href="#">onHoldPressDownStyle</a> , <a href="#">onHoldPressOffStyle</a> , <a href="#">setEnabled</a>
---

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** io.ashton.fastpress.client.fast.PressHandler

onPress

## Fields

**as**protected nl.tue.fingerpaint.client.model.ApplicationState **as**

Reference to the model. Used to get the saved protocols for the current geometry.

## Constructors

**RemoveSavedProtButton**public **RemoveSavedProtButton**([ApplicationState](#) appState)

Construct a new button that can be used to initiate the removal of a saved mixing protocol

**Parameters:**

appState - Reference to the model, used to get the currently selected geometry, which in turn is used in the local storage.

## Methods

**onPress**public void **onPress**(io.ashton.fastpress.client.fast.PressEvent event)

Creates a popup panel showing all saved protocols.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class RemoveSavedResultsButton

```

java.lang.Object
  +-com.google.gwt.user.client.ui.UIObject
    +-com.google.gwt.user.client.ui.Widget
      +-com.google.gwt.user.client.ui.Composite
        +-io.ashton.fastpress.client.fast.FastPressElement
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            +-nl.tue.fingerpaint.client.gui.buttons.RemoveSavedResultsButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **RemoveSavedResultsButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to remove previously saved mixing results.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">RemoveSavedResultsButton()</a> Construct a new button that can be used to remove previously saved mixing results.
--------	--

### Method Summary

void	<a href="#">onPress(io.ashton.fastpress.client.fast.PressEvent event)</a> Creates a popup panel showing all saved results.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Constructors

### RemoveSavedResultsButton

```
public RemoveSavedResultsButton()
```

Construct a new button that can be used to remove previously saved mixing results.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Creates a popup panel showing all saved results.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class ResetDistButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.ResetDistButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

```

public class ResetDistButton
extends FastButton
implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable,
com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers,
com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility,
io.ashton.fastpress.client.fast.PressHandler
  
```

Button to reset the current distribution to completely white.

## Field Summary

protected	<a href="#">as</a> Reference to the model.
-----------	---

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">ResetDistButton</a> ( <a href="#">ApplicationState</a> appState) Construct a new button that can be used to reset the current concentration distribution to a completely white distribution.
--------	---

## Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Resets the distribution to a completely white distribution.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable



```
claimElement, initializeClaimedElement, render, render
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers`

```
addPressHandler
```

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Fields

**as**

```
protected nl.tue.fingerpaint.client.model.ApplicationState as
```

Reference to the model. Used to reset the current distribution.

## Constructors

**ResetDistButton**

```
public ResetDistButton(ApplicationState appState)
```

Construct a new button that can be used to reset the current concentration distribution to a completely white distribution.

**Parameters:**

`appState` - Reference to the model, used to reset the current distribution to completely white.

## Methods

**onPress**

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Resets the distribution to a completely white distribution.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class ResetProtocolButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.ResetProtocolButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **ResetProtocolButton**

extends [FastButton](#)

implements [io.ashton.fastpress.client.fast.HasPressHandlers](#), [com.google.gwt.user.client.ui.IsRenderable](#), [com.google.gwt.user.client.EventListener](#), [com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.ui.IsWidget](#), [com.google.gwt.user.client.ui.HasVisibility](#), [io.ashton.fastpress.client.fast.PressHandler](#)

Button to reset the current mixing protocol.

### Field Summary

protected	<a href="#">fp</a>	Reference to the endpoint.
-----------	--------------------	----------------------------

#### Fields inherited from class [com.google.gwt.user.client.ui.UIObject](#)

[DEBUG\\_ID\\_PREFIX](#)

### Constructor Summary

public	<a href="#">ResetProtocolButton</a> ( <a href="#">Fingerpaint</a> parent)	Construct a new button that can be used to reset the current mixing protocol and hide all related widgets.
--------	---	--

### Method Summary

void	<a href="#">onPress</a> ( <a href="#">io.ashton.fastpress.client.fast.PressEvent</a> event)	Resets the protocol to empty.
------	---	-------------------------------

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

```
claimElement, initializeClaimedElement, render, render
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.HasPressHandlers`

```
addPressHandler
```

#### Methods inherited from interface `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

#### Methods inherited from interface `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Fields

### **fp**

protected `nl.tue.fingerpaint.client.Fingerpaint` **fp**

Reference to the endpoint. Used to reset the protocol and hide all related widgets.

## Constructors

### **ResetProtocolButton**

```
public ResetProtocolButton(Fingerpaint parent)
```

Construct a new button that can be used to reset the current mixing protocol and hide all related widgets.

**Parameters:**

parent - Reference to the endpoint, used to reset the current mixing protocol and all related widgets.

## Methods

### **onPress**

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Resets the protocol to empty.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class ResultsButton

```

java.lang.Object
  |--com.google.gwt.user.client.ui.UIObject
    |--com.google.gwt.user.client.ui.Widget
      |--com.google.gwt.user.client.ui.Composite
        |--io.ashton.fastpress.client.fast.FastPressElement
          |--nl.tue.fingerpaint.client.gui.buttons.FastButton
            |--nl.tue.fingerpaint.client.gui.buttons.ResultsButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **ResultsButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to enter the submenu with results related actions.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

#### Constructor Summary

public	<a href="#">ResultsButton()</a> Construct a new button that can be used to enter the submenu with distribution related actions.
--------	--

#### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Enter the submenu with distribution related actions.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Constructors

### ResultsButton

```
public ResultsButton()
```

Construct a new button that can be used to enter the submenu with distribution related actions.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Enter the submenu with distribution related actions.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class SaveDistributionButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.SaveDistributionButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **SaveDistributionButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button to save an initial concentration distribution.

## Field Summary

protected	<a href="#">fp</a> Reference to the endpoint.
-----------	--

## Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">SaveDistributionButton</a> ( <a href="#">Fingerpaint</a> parent) Construct a new button that can be used to save a concentration distribution.
--------	---

## Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Creates the save distribution popup panel.
------	--

## Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)



**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Fields

### **fp**

`protected nl.tue.fingerpaint.client.Fingerpaint fp`

Reference to the endpoint. Used to change which save button has been clicked last.

## Constructors

### **SaveDistributionButton**

`public SaveDistributionButton(Fingerpaint parent)`

Construct a new button that can be used to save a concentration distribution. When clicked, it will open the save item panel.

**Parameters:**

parent - Reference to the endpoint, used to change which save button has been clicked last.

## Methods

### **onPress**

`public void onPress(io.ashton.fastpress.client.fast.PressEvent event)`

Creates the save distribution popup panel.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class SaveItemPanelButton

```

java.lang.Object
├── com.google.gwt.user.client.ui.UIObject
│   ├── com.google.gwt.user.client.ui.Widget
│   │   ├── com.google.gwt.user.client.ui.Composite
│   │   │   ├── io.ashton.fastpress.client.fast.FastPressElement
│   │   │   └── nl.tue.fingerpaint.client.gui.buttons.FastButton
│   │       └── nl.tue.fingerpaint.client.gui.buttons.SaveItemPanelButton

```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **SaveItemPanelButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to actually initiate a saving action.

#### See Also:

[SaveItemPopupPanel](#), [SaveNameTextBox](#)

### Field Summary

protected	<a href="#">fp</a> Reference to the endpoint.
-----------	--

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG_ID_PREFIX
-----------------

### Constructor Summary

public	<a href="#">SaveItemPanelButton</a> ( <a href="#">Fingerpaint</a> parent) Construct a new button that can be used to initiate a saving action.
--------	---

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Tries to save the chosen result.
void	<a href="#">save</a> (boolean canOverwrite) Save the current protocol, distribution or mixing results, depending on which save button was pressed last.

**Methods inherited from class** [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** [io.ashton.fastpress.client.fast.FastPressEvent](#)

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** [com.google.gwt.user.client.ui.Composite](#)

[claimElement](#), [getWidget](#), [initializeClaimedElement](#), [initWidget](#), [isAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [render](#), [render](#), [resolvePotentialElement](#), [setWidget](#)

**Methods inherited from class** [com.google.gwt.user.client.ui.Widget](#)

[addAttachHandler](#), [addBitlessDomHandler](#), [addDomHandler](#), [addHandler](#), [asWidget](#), [asWidgetOrNull](#), [createHandlerManager](#), [delegateEvent](#), [doAttachChildren](#), [doDetachChildren](#), [fireEvent](#), [getHandlerCount](#), [getLayoutData](#), [getParent](#), [isAttached](#), [isOrWasAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [onLoad](#), [onUnload](#), [removeFromParent](#), [setLayoutData](#), [sinkEvents](#)

**Methods inherited from class** [com.google.gwt.user.client.ui.UIObject](#)

[addStyleDependentName](#), [addStyleName](#), [ensureDebugId](#), [ensureDebugId](#), [ensureDebugId](#), [getAbsoluteLeft](#), [getAbsoluteTop](#), [getElement](#), [getOffsetHeight](#), [getOffsetWidth](#), [getStyleElement](#), [getStyleName](#), [getStyleName](#), [getStylePrimaryName](#), [getStylePrimaryName](#), [getTitle](#), [isVisible](#), [isVisible](#), [onEnsureDebugId](#), [removeStyleDependentName](#), [removeStyleName](#), [resolvePotentialElement](#), [setElement](#), [setElement](#), [setHeight](#), [setPixelSize](#), [setSize](#), [setStyleDependentName](#), [setStyleName](#), [setStyleName](#), [setStyleName](#), [setStylePrimaryName](#), [setStylePrimaryName](#), [setTitle](#), [setVisible](#), [setVisible](#), [setWidth](#), [sinkBitlessEvent](#), [sinkEvents](#), [toString](#), [unsinkEvents](#)

**Methods inherited from class** [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

**Methods inherited from interface** [com.google.gwt.user.client.ui.HasVisibility](#)

[isVisible](#), [setVisible](#)

**Methods inherited from interface** [com.google.gwt.user.client.EventListener](#)

[onBrowserEvent](#)

**Methods inherited from interface** [com.google.gwt.event.logical.shared.HasAttachHandlers](#)

[addAttachHandler](#), [isAttached](#)

**Methods inherited from interface** [com.google.gwt.event.shared.HasHandlers](#)

[fireEvent](#)

**Methods inherited from interface** [com.google.gwt.user.client.ui.IsWidget](#)

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** io.ashton.fastpress.client.fast.PressHandler

onPress

## Fields

### fp

protected nl.tue.fingerpaint.client.Fingerpaint **fp**

Reference to the endpoint. Used to save items.

## Constructors

### SaveItemPanelButton

public **SaveItemPanelButton**([Fingerpaint](#) parent)

Construct a new button that can be used to initiate a saving action.

**Parameters:**

parent - Reference to the model, used to save items.

## Methods

### onPress

public void **onPress**(io.ashton.fastpress.client.fast.PressEvent event)

Tries to save the chosen result. If successful, a notification is shown; otherwise, the overwrite save panel is created.

**Parameters:**

event - The event that has fired.

### save

public void **save**(boolean canOverwrite)

Save the current protocol, distribution or mixing results, depending on which save button was pressed last. The result of this saving action is handled nicely with popups, including asking the user what to do in case a name already exists. When canOverwrite is true, an existing item will be overwritten without asking the user anything.

(continued from last page)

**Parameters:**

`canOverwrite` - If the user should be asked what to do when a saved item with the given name already exists or not.

## nl.tue.fingerpaint.client.gui.buttons

### Class SaveProtocolButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
    |
    +- com.google.gwt.user.client.ui.Widget
      |
      +- com.google.gwt.user.client.ui.Composite
        |
        +- io.ashton.fastpress.client.fast.FastPressElement
          |
          +- nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +- nl.tue.fingerpaint.client.gui.buttons.SaveProtocolButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **SaveProtocolButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to save a mixing protocol.

### Field Summary

protected	<a href="#">fp</a> Reference to the endpoint.
-----------	--

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">SaveProtocolButton</a> ( <a href="#">Fingerpaint</a> parent) Construct a new button that can be used to save a mixing protocol.
--------	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Creates the save protocol popup panel.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render



**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** io.ashton.fastpress.client.fast.PressHandler

onPress

## Fields

**fp**protected nl.tue.fingerpaint.client.Fingerpaint **fp**

Reference to the endpoint. Used to change which save button has been clicked last.

## Constructors

**SaveProtocolButton**public **SaveProtocolButton**([Fingerpaint](#) parent)

Construct a new button that can be used to save a mixing protocol. When clicked, it will open the save item panel.

**Parameters:**

parent - Reference to the endpoint, used to change which save button has been clicked last.

## Methods

**onPress**public void **onPress**(io.ashton.fastpress.client.fast.PressEvent event)

Creates the save protocol popup panel.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class SaveResultsButton

```

java.lang.Object
├── com.google.gwt.user.client.ui.UIObject
│   ├── com.google.gwt.user.client.ui.Widget
│   │   ├── com.google.gwt.user.client.ui.Composite
│   │   │   ├── io.ashton.fastpress.client.fast.FastPressElement
│   │   │   │   └── nl.tue.fingerpaint.client.gui.buttons.FastButton
│   │   │   │       └── nl.tue.fingerpaint.client.gui.buttons.SaveResultsButton

```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **SaveResultsButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to save a mixing run.

### Field Summary

protected	<a href="#">fp</a> Reference to the endpoint.
-----------	--

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">SaveResultsButton</a> ( <a href="#">Fingerpaint</a> parent) Construct a new button that can be used to save a mixing run.
--------	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Creates the save results popup panel.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Fields

### **fp**

`protected nl.tue.fingerpaint.client.Fingerpaint fp`

Reference to the endpoint. Used to change which save button has been clicked last.

## Constructors

### **SaveResultsButton**

`public SaveResultsButton(Fingerpaint parent)`

Construct a new button that can be used to save a mixing run. When clicked, it will open the save item panel.

**Parameters:**

parent - Reference to the endpoint, used to change which save button has been clicked last.

## Methods

### **onPress**

`public void onPress(io.ashton.fastpress.client.fast.PressEvent event)`

Creates the save results popup panel.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class SquareDrawingToolToggleButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- io.ashton.fastpress.client.fast.FastPressElement
                  |
                  +- nl.tue.fingerpaint.client.gui.buttons.FastToggleButton
                      |
                      +- nl.tue.fingerpaint.client.gui.buttons.SquareDrawingToolToggleButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **SquareDrawingToolToggleButton**

extends [FastToggleButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

com.google.gwt.user.client.ui.ToggleButton that is used to select the square drawing tool.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

#### Constructor Summary

public	<a href="#">SquareDrawingToolToggleButton</a> ( <a href="#">Fingerpaint</a> parent, <a href="#">ApplicationState</a> appState) Construct the <a href="#">SquareDrawingTool</a> .
--------	---

#### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Toggles the drawing tool to square, with the desired size.
void	<a href="#">setColour</a> ( <a href="#">Colour</a> toolColour) Change the colour of the tool in the button.

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastToggleButton](#)

[getElement](#), [getToggleButton](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressElement

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Constructors

### SquareDrawingToolToggleButton

```
public SquareDrawingToolToggleButton(Fingerpaint parent,  
                                     ApplicationState appState)
```

Construct the [SquareDrawingTool](#).

**Parameters:**

`parent` - A reference to the Fingerpaint class.

`appState` - Reference to the model that holds the state of the application.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Toggles the drawing tool to square, with the desired size.

**Parameters:**

`event` - The event that has fired.

### setColour

```
public void setColour(Colour toolColour)
```

Change the colour of the tool in the button.

**Parameters:**

`toolColour` - The (new) colour for the tool in the button. When null, the colour will be reset and thus, the default colour will be used.

## nl.tue.fingerpaint.client.gui.buttons

### Class ToggleColourButton

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
    |
    +- com.google.gwt.user.client.ui.Widget
      |
      +- com.google.gwt.user.client.ui.Composite
        |
        +- io.ashton.fastpress.client.fast.FastPressElement
          |
          +- nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +- nl.tue.fingerpaint.client.gui.buttons.ToggleColourButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

public class **ToggleColourButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to change the drawing colour.

### Field Summary

protected	<a href="#">as</a> Reference to the model.
protected	<a href="#">bgCol</a> Background colour.
protected	<a href="#">bgColEl</a> Element that show background colour.
protected	<a href="#">fgCol</a> Foreground colour.
protected	<a href="#">fgColEl</a> Element that shows foreground colour.
protected	<a href="#">identifier</a> Identifier of this instance.
public static final	<a href="#">STYLENAME</a> Style name (class) used on this button. Value: <b>gwt-ToggleColourButton</b>



public static final	<a href="#">STYLENAME_BG_EL</a> Style name of element that represents background colour. Value: <b>gwt-ToggleColourButtonBackground</b>
public static final	<a href="#">STYLENAME_FG_EL</a> Style name of element that represents foreground colour. Value: <b>gwt-ToggleColourButtonForeground</b>
public static final	<a href="#">TOGGLE_COLOUR</a> Identifier for the ToggleColourButton in the main menu. Value: <b>toggleColour</b>
public static final	<a href="#">TOGGLE_COLOUR_TOOL_MENU</a> Identifier for the ToggleColourButton in the tool menu. Value: <b>toolMenuToggleColour</b>
protected static final	<a href="#">UPDATE_BG</a> Constant use for <a href="#">update(int)</a> . Value: <b>1</b>
protected static final	<a href="#">UPDATE_BOTH</a> Constant use for <a href="#">update(int)</a> . Value: <b>0</b>
protected static final	<a href="#">UPDATE_FG</a> Constant use for <a href="#">update(int)</a> . Value: <b>2</b>

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">ToggleColourButton</a> ( <a href="#">ApplicationState</a> appState, java.lang.String identifier) Construct a new button that can be used to toggle between black and white.
--------	--

## Method Summary

<a href="#">Colour</a>	<a href="#">getSelectedColour</a> () Return the currently selected colour.
void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Toggles the colour used for drawing.
void	<a href="#">setBackgroundColour</a> ( <a href="#">Colour</a> backgroundColour) Change the background (currently not selected) colour.
void	<a href="#">setForegroundColour</a> ( <a href="#">Colour</a> foregroundColour) Change the foreground (currently selected) colour.
void	<a href="#">toggleColour</a> () Swaps the foreground and background colour.

void	<a href="#">update</a> (int updateWhat)
------	---

Set the background colour properties for the foreground and background elements (using the global [fgCol](#) and [bgCol](#)).

**Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)**

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class [io.ashton.fastpress.client.fast.FastPressElement](#)**

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class [com.google.gwt.user.client.ui.Composite](#)**

[claimElement](#), [getWidget](#), [initializeClaimedElement](#), [initWidget](#), [isAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [render](#), [render](#), [resolvePotentialElement](#), [setWidget](#)

**Methods inherited from class [com.google.gwt.user.client.ui.Widget](#)**

[addAttachHandler](#), [addBitlessDomHandler](#), [addDomHandler](#), [addHandler](#), [asWidget](#), [asWidgetOrNull](#), [createHandlerManager](#), [delegateEvent](#), [doAttachChildren](#), [doDetachChildren](#), [fireEvent](#), [getHandlerCount](#), [getLayoutData](#), [getParent](#), [isAttached](#), [isOrWasAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [onLoad](#), [onUnload](#), [removeFromParent](#), [setLayoutData](#), [sinkEvents](#)

**Methods inherited from class [com.google.gwt.user.client.ui.UIObject](#)**

[addStyleDependentName](#), [addStyleName](#), [ensureDebugId](#), [ensureDebugId](#), [ensureDebugId](#), [getAbsoluteLeft](#), [getAbsoluteTop](#), [getElement](#), [getOffsetHeight](#), [getOffsetWidth](#), [getStyleElement](#), [getStyleName](#), [getStyleName](#), [getStylePrimaryName](#), [getStylePrimaryName](#), [getTitle](#), [isVisible](#), [isVisible](#), [onEnsureDebugId](#), [removeStyleDependentName](#), [removeStyleName](#), [resolvePotentialElement](#), [setElement](#), [setElement](#), [setHeight](#), [setPixelSize](#), [setSize](#), [setStyleDependentName](#), [setStyleName](#), [setStyleName](#), [setStyleName](#), [setStyleName](#), [setStylePrimaryName](#), [setStylePrimaryName](#), [setTitle](#), [setVisible](#), [setVisible](#), [setWidth](#), [sinkBitlessEvent](#), [sinkEvents](#), [toString](#), [unsinkEvents](#)

**Methods inherited from class [java.lang.Object](#)**

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

**Methods inherited from interface [com.google.gwt.user.client.ui.HasVisibility](#)**

[isVisible](#), [setVisible](#)

**Methods inherited from interface [com.google.gwt.user.client.EventListener](#)**

[onBrowserEvent](#)

**Methods inherited from interface [com.google.gwt.event.logical.shared.HasAttachHandlers](#)**

[addAttachHandler](#), [isAttached](#)

**Methods inherited from interface [com.google.gwt.event.shared.HasHandlers](#)**

---

```
fireEvent
```

```
Methods inherited from interface com.google.gwt.user.client.ui.IsWidget
```

```
asWidget
```

```
Methods inherited from interface com.google.gwt.user.client.ui.IsRenderable
```

```
claimElement, initializeClaimedElement, render, render
```

```
Methods inherited from interface io.ashton.fastpress.client.fast.HasPressHandlers
```

```
addPressHandler
```

```
Methods inherited from interface com.google.gwt.event.shared.HasHandlers
```

```
fireEvent
```

```
Methods inherited from interface io.ashton.fastpress.client.fast.PressHandler
```

```
onPress
```

---

## Fields

### TOGGLE\_COLOUR

```
public static final java.lang.String TOGGLE_COLOUR
```

Identifier for the ToggleColourButton in the main menu.  
Constant value: **toggleColour**

---

### TOGGLE\_COLOUR\_TOOL\_MENU

```
public static final java.lang.String TOGGLE_COLOUR_TOOL_MENU
```

Identifier for the ToggleColourButton in the tool menu.  
Constant value: **toolMenuToggleColour**

---

### STYLENAME

```
public static final java.lang.String STYLENAME
```

Style name (class) used on this button.  
Constant value: **gwt-ToggleColourButton**

---

### STYLENAME\_FG\_EL

```
public static final java.lang.String STYLENAME_FG_EL
```

Style name of element that represents foreground colour.  
Constant value: **gwt-ToggleColourButtonForeground**

---

### STYLENAME\_BG\_EL

```
public static final java.lang.String STYLENAME_BG_EL
```

---

---

(continued from last page)

Style name of element that represents background colour.  
Constant value: **gwt-ToggleColourButtonBackground**

---

## UPDATE\_BOTH

protected static final int **UPDATE\_BOTH**

Constant use for [update\(int\)](#).  
Constant value: **0**

---

## UPDATE\_BG

protected static final int **UPDATE\_BG**

Constant use for [update\(int\)](#).  
Constant value: **1**

---

## UPDATE\_FG

protected static final int **UPDATE\_FG**

Constant use for [update\(int\)](#).  
Constant value: **2**

---

## as

protected nl.tue.fingerpaint.client.model.ApplicationState **as**

Reference to the model. Used to change the drawing colour.

---

## fgCol

protected nl.tue.fingerpaint.shared.utils.Colour **fgCol**

Foreground colour.

---

## fgColEl

protected com.google.gwt.dom.client.DivElement **fgColEl**

Element that shows foreground colour.

---

## bgCol

protected nl.tue.fingerpaint.shared.utils.Colour **bgCol**

Background colour.

---

## bgColEl

protected com.google.gwt.dom.client.DivElement **bgColEl**

Element that show background colour.

---

## identifier

protected java.lang.String **identifier**

---

---

(continued from last page)

Identifier of this instance.

## Constructors

### ToggleColourButton

```
public ToggleColourButton(ApplicationState appState,  
                           java.lang.String identifier)
```

Construct a new button that can be used to toggle between black and white.

**Parameters:**

`appState` - Reference to the model, used to change drawing colour.  
`identifier` - Identifier for this object.

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Toggles the colour used for drawing.

**Parameters:**

`event` - The event that has fired.

---

### getSelectedColour

```
public Colour getSelectedColour()
```

Return the currently selected colour.

**Returns:**

The currently selected ("foreground") colour.

---

### setBackgroundColour

```
public void setBackgroundColour(Colour backgroundColour)
```

Change the background (currently not selected) colour.

**Parameters:**

`backgroundColour` - New background (not selected) colour.

---

### setForegroundColour

```
public void setForegroundColour(Colour foregroundColour)
```

Change the foreground (currently selected) colour.

**Parameters:**

`foregroundColour` - New foreground (selected) colour.

---

### toggleColour

```
public void toggleColour()
```

Swaps the foreground and background colour.

## update

```
protected void update(int updateWhat)
```

Set the background colour properties for the foreground and background elements (using the global [fgCol](#) and [bgCol](#)).

**Parameters:**

updateWhat - A constant to indicate if only the foreground colour, only the background colour or both should be updated.

## nl.tue.fingerpaint.client.gui.buttons

### Class ToggleDefineProtocol

```

java.lang.Object
├── com.google.gwt.user.client.ui.UIObject
│   ├── com.google.gwt.user.client.ui.Widget
│   │   ├── com.google.gwt.user.client.ui.Composite
│   │   │   ├── io.ashton.fastpress.client.fast.FastPressElement
│   │   │   └── nl.tue.fingerpaint.client.gui.buttons.FastButton
│   │       └── nl.tue.fingerpaint.client.gui.buttons.ToggleDefineProtocol

```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **ToggleDefineProtocol**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

ToggleButton that can be used to indicate if a protocol is being defined. If not in default state, then adding a step will execute it immediately.

### Field Summary

protected	<a href="#">as</a>	Reference to the model.
-----------	--------------------	-------------------------

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG_ID_PREFIX
-----------------

### Constructor Summary

public	<a href="#">ToggleDefineProtocol</a> ( <a href="#">ApplicationState</a> appState)	Construct a new com.google.gwt.user.client.ui.Button that can be used to enter a submenu in which all protocol related actions are grouped.
--------	---	---

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event)	Toggles the protocol widgets as visible or invisible, and resets the protocol if the widgets are being hidden.
------	--	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

**Methods inherited from class** io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget



**Methods inherited from interface** `com.google.gwt.user.client.ui.IsRenderable``claimElement, initializeClaimedElement, render, render`**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Fields

**as**`protected nl.tue.fingerpaint.client.model.ApplicationState as`

Reference to the model. Used to change if the user is defining a protocol.

## Constructors

### **ToggleDefineProtocol**

`public ToggleDefineProtocol(ApplicationState appState)`

Construct a new `com.google.gwt.user.client.ui.Button` that can be used to enter a submenu in which all protocol related actions are grouped.

**Parameters:**

`appState` - Reference to the model. Used to change if the user is defining a protocol.

**See Also:**

[ToggleDefineProtocol](#)

## Methods

### **onPress**

`public void onPress(io.ashton.fastpress.client.fast.PressEvent event)`

Toggles the protocol widgets as visible or invisible, and resets the protocol if the widgets are being hidden.

**Parameters:**

`event` - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class ToolSelectButton

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-io.ashton.fastpress.client.fast.FastPressElement
          |
          +-nl.tue.fingerpaint.client.gui.buttons.FastButton
            |
            +-nl.tue.fingerpaint.client.gui.buttons.ToolSelectButton
  
```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **ToolSelectButton**

extends [FastButton](#)

implements [io.ashton.fastpress.client.fast.HasPressHandlers](#), [com.google.gwt.user.client.ui.IsRenderable](#), [com.google.gwt.user.client.EventListener](#), [com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.ui.IsWidget](#), [com.google.gwt.user.client.ui.HasVisibility](#), [io.ashton.fastpress.client.fast.PressHandler](#)

Button that can be used to change the drawing tool.

#### Fields inherited from class [com.google.gwt.user.client.ui.UIObject](#)

DEBUG\_ID\_PREFIX

#### Constructor Summary

public	<a href="#">ToolSelectButton()</a> Construct the <a href="#">ToolSelectButton</a> .
--------	--

#### Method Summary

void	<a href="#">onPress</a> ( <a href="#">io.ashton.fastpress.client.fast.PressEvent</a> event) Shows the popup in which to select the drawing tool.
------	---

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [io.ashton.fastpress.client.fast.FastPressElement](#)

[addPressHandler](#), [getWidget](#), [onBrowserEvent](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class [com.google.gwt.user.client.ui.Composite](#)

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** io.ashton.fastpress.client.fast.HasPressHandlers

addPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

```
fireEvent
```

**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler`

```
onPress
```

## Constructors

### ToolSelectButton

```
public ToolSelectButton()
```

Construct the [ToolSelectButton](#).

## Methods

### onPress

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Shows the popup in which to select the drawing tool.

**Parameters:**

event - The event that has fired.

## nl.tue.fingerpaint.client.gui.buttons

### Class ViewSingleGraphButton

```

java.lang.Object
├── com.google.gwt.user.client.ui.UIObject
│   ├── com.google.gwt.user.client.ui.Widget
│   │   ├── com.google.gwt.user.client.ui.Composite
│   │   │   ├── io.ashton.fastpress.client.fast.FastPressElement
│   │   │   │   ├── nl.tue.fingerpaint.client.gui.buttons.FastButton
│   │   │   │   └── nl.tue.fingerpaint.client.gui.buttons.ViewSingleGraphButton

```

#### All Implemented Interfaces:

io.ashton.fastpress.client.fast.PressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, io.ashton.fastpress.client.fast.HasPressHandlers

#### public class **ViewSingleGraphButton**

extends [FastButton](#)

implements io.ashton.fastpress.client.fast.HasPressHandlers, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, io.ashton.fastpress.client.fast.PressHandler

Button that can be used to view the performance of the previously executed mixing run in a single graph.

### Field Summary

protected	<a href="#">as</a> Reference to the model.
protected	<a href="#">fp</a> Reference to the endpoint.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">ViewSingleGraphButton</a> ( <a href="#">Fingerpaint</a> parent, <a href="#">ApplicationState</a> appState) Construct a new button that can be used to view the performance of the previously executed mixing run in a single graph.
--------	--

### Method Summary

void	<a href="#">onPress</a> (io.ashton.fastpress.client.fast.PressEvent event) Shows a graph of the current mixing run.
------	--

#### Methods inherited from class [nl.tue.fingerpaint.client.gui.buttons.FastButton](#)

[getButton](#), [getElement](#), [onDisablePressStyle](#), [onEnablePressStyle](#), [onHoldPressDownStyle](#), [onHoldPressOffStyle](#), [setEnabled](#)

#### Methods inherited from class io.ashton.fastpress.client.fast.FastPressEvent

addPressHandler, getWidget, onBrowserEvent, onDisablePressStyle, onEnablePressStyle, onHoldPressDownStyle, onHoldPressOffStyle, setEnabled

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** `com.google.gwt.user.client.ui.IsRenderable``claimElement, initializeClaimedElement, render, render`**Methods inherited from interface** `io.ashton.fastpress.client.fast.HasPressHandlers``addPressHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `io.ashton.fastpress.client.fast.PressHandler``onPress`

## Fields

### **fp**

`protected nl.tue.fingerpaint.client.Fingerpaint fp`

Reference to the endpoint. Used to call the functionality of the graph visualisator.

### **as**

`protected nl.tue.fingerpaint.client.model.ApplicationState as`

Reference to the model. Used to retrieve the segregation of the previously executed mixing run.

## Constructors

### **ViewSingleGraphButton**

```
public ViewSingleGraphButton(Fingerpaint parent,
                             ApplicationState appState)
```

Construct a new button that can be used to view the performance of the previously executed mixing run in a single graph.

**Parameters:**

`parent` - Reference to the endpoint, used to call the functionality of the graph visualisator.

`appState` - Reference to the model, used to retrieve the segregation of the previously executed mixing run.

## Methods

### **onPress**

```
public void onPress(io.ashton.fastpress.client.fast.PressEvent event)
```

Shows a graph of the current mixing run.

**Parameters:**

`event` - The event that has fired.

---

Package

**nl.tue.fingerpaint.client.gui.celllists**



## nl.tue.fingerpaint.client.gui.celllists

### Class CompareSelectPopupCellList

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- com.google.gwt.user.cellview.client.AbstractHasData
                  |
                  +- com.google.gwt.user.cellview.client.CellList
                      |
                      +- nl.tue.fingerpaint.client.gui.celllists.CompareSelectPopupCellList
  
```

#### All Implemented Interfaces:

com.google.gwt.view.client.CellPreviewEvent.Handler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy, com.google.gwt.user.client.ui.Focusable, com.google.gwt.view.client.HasKeyProvider, com.google.gwt.view.client.HasData

#### public class CompareSelectPopupCellList

extends com.google.gwt.user.cellview.client.CellList

implements com.google.gwt.view.client.HasData, com.google.gwt.view.client.HasKeyProvider, com.google.gwt.user.client.ui.Focusable, com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.view.client.CellPreviewEvent.Handler

CellList that can be used to select multiple mixing runs from all available saved mixing runs.

### Field Summary

protected final	<a href="#">selectionEventManager</a> The selection event manager of this cell list.
protected final	<a href="#">selectionModel</a> The selection model of this cell list.

### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">CompareSelectPopupCellList()</a> Construct a new cell list that can be used to select multiple mixing runs from all available saved mixing runs.
--------	---

### Method Summary

com.google.gwt.view.client.MultiSelectionModel	<a href="#">getSelectionModel()</a> Returns the set of selected results.
--	---

void	<a href="#">onCellPreview</a> (com.google.gwt.view.client.CellPreviewEvent event) Toggles the item which was clicked or tapped to selected or unselected.
------	--

**Methods inherited from class** com.google.gwt.user.cellview.client.CellList

dependsOnSelection, doAttachChildren, doDetachChildren, fireEventToCell, getCell, getCellParent, getChildContainer, getEmptyListMessage, getEmptyListWidget, getKeyboardSelectedElement, getLoadingIndicator, getRowElement, isKeyboardNavigationSuppressed, onBlur, onBrowserEvent2, onFocus, onLoadingStateChanged, renderRowValues, resetFocusOnCell, setEmptyListMessage, setEmptyListWidget, setKeyboardSelected, setLoadingIndicator, setSelected, setValueUpdater

**Methods inherited from class** com.google.gwt.user.cellview.client.AbstractHasData

addCellPreviewHandler, addLoadingStateChangeHandler, addRangeChangeHandler, addRowCountChangeHandler, cellConsumesEventType, checkRowBounds, convertToElements, dependsOnSelection, getAccessKey, getChildContainer, getChildElement, getDisplayedItem, getDisplayedItems, getKeyboardPagingPolicy, getKeyboardSelectedElement, getKeyboardSelectedRow, getKeyboardSelectionPolicy, getKeyProvider, getPageSize, getPageStart, getRowContainer, getRowCount, getSelectionModel, getTabIndex, getValueKey, getVisibleItem, getVisibleItemCount, getVisibleItems, getVisibleRange, isKeyboardNavigationSuppressed, isRowCountExact, isRowWithinBounds, onBlur, onBrowserEvent, onBrowserEvent2, onFocus, onLoadingStateChanged, onUnload, redraw, redrawRow, renderRowValues, replaceAllChildren, replaceChildren, resetFocusOnCell, setAccessKey, setFocus, setFocusable, setKeyboardPagingPolicy, setKeyboardSelected, setKeyboardSelectedRow, setKeyboardSelectedRow, setKeyboardSelectionHandler, setKeyboardSelectionPolicy, setPageSize, setPageStart, setRowCount, setRowCount, setRowData, setRowData, setSelected, setSelectionModel, setSelectionModel, setTabIndex, setVisibleRange, setVisibleRange, setVisibleRangeAndClearData

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** com.google.gwt.view.client.HasData

getSelectionModel, getVisibleItem, getVisibleItemCount, getVisibleItems, setRowData, setSelectionModel, setVisibleRangeAndClearData

**Methods inherited from interface** com.google.gwt.view.client.HasRows

addRangeChangeHandler, addRowCountChangeHandler, getRowCount, getVisibleRange, isRowCountExact, setRowCount, setRowCount, setVisibleRange, setVisibleRange

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.view.client.HasCellPreviewHandlers

addCellPreviewHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.view.client.HasKeyProvider

getKeyProvider

**Methods inherited from interface** com.google.gwt.user.client.ui.Focusable

---

```
getTabIndex, setAccessKey, setFocus, setTabIndex
```

```
Methods inherited from interface com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy
```

```
getKeyboardPagingPolicy, setKeyboardPagingPolicy
```

```
Methods inherited from interface com.google.gwt.user.cellview.client.HasKeyboardSelectionPolicy
```

```
getKeyboardSelectionPolicy, setKeyboardSelectionPolicy
```

```
Methods inherited from interface com.google.gwt.view.client.CellPreviewEvent.Handler
```

```
onCellPreview
```

---

## Fields

### selectionModel

```
protected final com.google.gwt.view.client.MultiSelectionModel selectionModel
```

The selection model of this cell list.

---

### selectionEventManager

```
protected final com.google.gwt.view.client.CellPreviewEvent.Handler  
selectionEventManager
```

The selection event manager of this cell list.

---

## Constructors

### CompareSelectPopupCellList

```
public CompareSelectPopupCellList()
```

Construct a new cell list that can be used to select multiple mixing runs from all available saved mixing runs.

---

## Methods

### getSelectionModel

```
public com.google.gwt.view.client.MultiSelectionModel getSelectionModel()
```

Returns the set of selected results.

**Returns:**

the set of selected results.

---

### onCellPreview

```
public void onCellPreview(com.google.gwt.view.client.CellPreviewEvent event)
```

Toggles the item which was clicked or tapped to selected or unselected.

**Parameters:**

(continued from last page)

event - The name that was clicked or tapped.

## nl.tue.fingerpaint.client.gui.celllists

### Class LoadInitDistCellList

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- com.google.gwt.user.cellview.client.AbstractHasData
                  |
                  +- com.google.gwt.user.cellview.client.CellList
                      |
                      +- nl.tue.fingerpaint.client.gui.celllists.LoadInitDistCellList
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget,  
 com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener,  
 com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy,  
 com.google.gwt.user.client.ui.Focusable, com.google.gwt.view.client.HasKeyProvider,  
 com.google.gwt.view.client.HasData

```

public class LoadInitDistCellList
  extends com.google.gwt.user.cellview.client.CellList
  
```

CellList that is used to show all saved initial distributions, of which the user can select one to load.

## Field Summary

protected	<a href="#">as</a>	Reference to the model.
-----------	--------------------	-------------------------

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">LoadInitDistCellList</a> ( <a href="#">ApplicationState</a> appState)	Construct a new cell list that can be used to select multiple mixing runs from all available saved mixing runs.
--------	---	---

## Method Summary

void	<a href="#">fillCellList</a> (java.util.List geometryDistributions)	Fills this CellList with the items in geometryDistributions.
------	---	--

#### Methods inherited from class com.google.gwt.user.cellview.client.CellList

dependsOnSelection, doAttachChildren, doDetachChildren, fireEventToCell, getCell, getCellParent, getChildContainer, getEmptyListMessage, getEmptyListWidget, getKeyboardSelectedElement, getLoadingIndicator, getRowElement, isKeyboardNavigationSuppressed, onBlur, onBrowserEvent2, onFocus, onLoadingStateChanged, renderRowValues, resetFocusOnCell, setEmptyListMessage, setEmptyListWidget, setKeyboardSelected, setLoadingIndicator, setSelected, setValueUpdater

#### Methods inherited from class com.google.gwt.user.cellview.client.AbstractHasData

addCellPreviewHandler, addLoadingStateChangeHandler, addRangeChangeHandler, addRowCountChangeHandler, cellConsumesEventType, checkRowBounds, convertToElements, dependsOnSelection, getAccessKey, getChildContainer, getChildElement, getDisplayedItem, getDisplayedItems, getKeyboardPagingPolicy, getKeyboardSelectedElement, getKeyboardSelectedRow, getKeyboardSelectionPolicy, getKeyProvider, getPageSize, getPageStart, getRowContainer, getRowCount, getSelectionModel, getTabIndex, getValueKey, getVisibleItem, getVisibleItemCount, getVisibleItems, getVisibleRange, isKeyboardNavigationSuppressed, isRowCountExact, isRowWithinBounds, onBlur, onBrowserEvent, onBrowserEvent2, onFocus, onLoadingStateChanged, onUnload, redraw, redrawRow, renderRowValues, replaceAllChildren, replaceChildren, resetFocusOnCell, setAccessKey, setFocus, setFocusable, setKeyboardPagingPolicy, setKeyboardSelected, setKeyboardSelectedRow, setKeyboardSelectedRow, setKeyboardSelectionHandler, setKeyboardSelectionPolicy, setPageSize, setPageStart, setRowCount, setRowCount, setRowData, setRowData, setSelected, setSelectionModel, setSelectionModel, setTabIndex, setVisibleRange, setVisibleRange, setVisibleRangeAndClearData

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** com.google.gwt.view.client.HasData

getSelectionModel, getVisibleItem, getVisibleItemCount, getVisibleItems, setRowData, setSelectionModel, setVisibleRangeAndClearData

**Methods inherited from interface** com.google.gwt.view.client.HasRows

addRangeChangeHandler, addRowCountChangeHandler, getRowCount, getVisibleRange, isRowCountExact, setRowCount, setRowCount, setVisibleRange, setVisibleRange

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.view.client.HasCellPreviewHandlers

addCellPreviewHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.view.client.HasKeyProvider

getKeyProvider

**Methods inherited from interface** com.google.gwt.user.client.ui.Focusable

getTabIndex, setAccessKey, setFocus, setTabIndex

**Methods inherited from interface** com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy

getKeyboardPagingPolicy, setKeyboardPagingPolicy



---

**Methods inherited from interface** `com.google.gwt.user.cellview.client.HasKeyboardSelectionPolicy`

`getKeyboardSelectionPolicy, setKeyboardSelectionPolicy`

---

## Fields

### **as**

`protected nl.tue.fingerpaint.client.model.ApplicationState as`

Reference to the model. Used to set the loaded concentration distribution.

## Constructors

### **LoadInitDistCellList**

`public LoadInitDistCellList(ApplicationState appState)`

Construct a new cell list that can be used to select multiple mixing runs from all available saved mixing runs.

**Parameters:**

`appState` - Reference to the model, used to set the selected concentration distribution.

## Methods

### **fillCellList**

`public void fillCellList(java.util.List geometryDistributions)`

Fills this CellList with the items in geometryDistributions.

**Parameters:**

`geometryDistributions` - List of all initial concentration distributions currently stored in the local storage.

## nl.tue.fingerpaint.client.gui.celllists

### Class LoadProtocolCellList

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
    |
    +- com.google.gwt.user.client.ui.Widget
      |
      +- com.google.gwt.user.client.ui.Composite
        |
        +- com.google.gwt.user.cellview.client.AbstractHasData
          |
          +- com.google.gwt.user.cellview.client.CellList
            |
            +- nl.tue.fingerpaint.client.gui.celllists.LoadProtocolCellList
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget,  
 com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener,  
 com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy,  
 com.google.gwt.user.client.ui.Focusable, com.google.gwt.view.client.HasKeyProvider,  
 com.google.gwt.view.client.HasData

```

public class LoadProtocolCellList
  extends com.google.gwt.user.cellview.client.CellList
  
```

CellList that can be used to load a previously saved mixing protocol.

### Field Summary

protected	<a href="#">as</a> Reference to the model.
protected final	<a href="#">selectionModel</a> The selection model of this cell list.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">LoadProtocolCellList</a> ( <a href="#">ApplicationState</a> appState) Construct a new cell list that can be used to load a previously saved mixing protocol.
--------	---

### Method Summary

void	<a href="#">fillCellList</a> (java.util.List geometryProtocols) Fills this CellList with the items in geometryProtocols.
------	---

#### Methods inherited from class com.google.gwt.user.cellview.client.CellList

dependsOnSelection, doAttachChildren, doDetachChildren, fireEventToCell, getCell, getCellParent, getChildContainer, getEmptyListMessage, getEmptyListWidget, getKeyboardSelectedElement, getLoadingIndicator, getRowElement, isKeyboardNavigationSuppressed, onBlur, onBrowserEvent2, onFocus, onLoadingStateChanged, renderRowValues, resetFocusOnCell, setEmptyListMessage, setEmptyListWidget, setKeyboardSelected, setLoadingIndicator, setSelected, setValueUpdater

#### Methods inherited from class com.google.gwt.user.cellview.client.AbstractHasData

addCellPreviewHandler, addLoadingStateChangeHandler, addRangeChangeHandler, addRowCountChangeHandler, cellConsumesEventType, checkRowBounds, convertToElements, dependsOnSelection, getAccessKey, getChildContainer, getChildElement, getDisplayedItem, getDisplayedItems, getKeyboardPagingPolicy, getKeyboardSelectedElement, getKeyboardSelectedRow, getKeyboardSelectionPolicy, getKeyProvider, getPageSize, getPageStart, getRowContainer, getRowCount, getSelectionModel, getTabIndex, getValueKey, getVisibleItem, getVisibleItemCount, getVisibleItems, getVisibleRange, isKeyboardNavigationSuppressed, isRowCountExact, isRowWithinBounds, onBlur, onBrowserEvent, onBrowserEvent2, onFocus, onLoadingStateChanged, onUnload, redraw, redrawRow, renderRowValues, replaceAllChildren, replaceChildren, resetFocusOnCell, setAccessKey, setFocus, setFocusable, setKeyboardPagingPolicy, setKeyboardSelected, setKeyboardSelectedRow, setKeyboardSelectedRow, setKeyboardSelectionHandler, setKeyboardSelectionPolicy, setPageSize, setPageStart, setRowCount, setRowCount, setRowData, setRowData, setSelected, setSelectionModel, setSelectionModel, setTabIndex, setVisibleRange, setVisibleRange, setVisibleRangeAndClearData

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** com.google.gwt.view.client.HasData

getSelectionModel, getVisibleItem, getVisibleItemCount, getVisibleItems, setRowData, setSelectionModel, setVisibleRangeAndClearData

**Methods inherited from interface** com.google.gwt.view.client.HasRows

addRangeChangeHandler, addRowCountChangeHandler, getRowCount, getVisibleRange, isRowCountExact, setRowCount, setRowCount, setVisibleRange, setVisibleRange

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.view.client.HasCellPreviewHandlers

addCellPreviewHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.view.client.HasKeyProvider

getKeyProvider

**Methods inherited from interface** com.google.gwt.user.client.ui.Focusable

getTabIndex, setAccessKey, setFocus, setTabIndex

**Methods inherited from interface** com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy

getKeyboardPagingPolicy, setKeyboardPagingPolicy

---

**Methods inherited from interface** `com.google.gwt.user.cellview.client.HasKeyboardSelectionPolicy`

`getKeyboardSelectionPolicy, setKeyboardSelectionPolicy`

---

## Fields

### **as**

`protected nl.tue.fingerpaint.client.model.ApplicationState as`

Reference to the model. Used to set the protocol and retrieve the current geometry choice.

---

### **selectionModel**

`protected final com.google.gwt.view.client.SingleSelectionModel selectionModel`

The selection model of this cell list.

---

## Constructors

### **LoadProtocolCellList**

`public LoadProtocolCellList(ApplicationState appState)`

Construct a new cell list that can be used to load a previously saved mixing protocol.

**Parameters:**

`appState` - Reference to the model, used to set the protocol and retrieve the current geometry choice.

---

## Methods

### **fillCellList**

`public void fillCellList(java.util.List geometryProtocols)`

Fills this CellList with the items in geometryProtocols.

**Parameters:**

`geometryProtocols` - List of all mixing protocols currently stored in the local storage.

---

## nl.tue.fingerpaint.client.gui.celllists

### Class LoadResultsCellList

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- com.google.gwt.user.cellview.client.AbstractHasData
                  |
                  +- com.google.gwt.user.cellview.client.CellList
                      |
                      +- nl.tue.fingerpaint.client.gui.celllists.LoadResultsCellList
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy, com.google.gwt.user.client.ui.Focusable, com.google.gwt.view.client.HasKeyProvider, com.google.gwt.view.client.HasData

```

public class LoadResultsCellList
  extends com.google.gwt.user.cellview.client.CellList
  
```

CellList that is used to show all saved results, of which the user can select one to load.

### Field Summary

protected	<a href="#">as</a> Reference to the model.
protected	<a href="#">fp</a> Fingerprint class needed for mixing

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">LoadResultsCellList</a> ( <a href="#">Fingerprint</a> fp, <a href="#">ApplicationState</a> appState) Construct a new cell list that can be used to select results from all available saved results.
--------	--

### Method Summary

void	<a href="#">fillCellList</a> (java.util.List results) Fills this CellList with the items in results.
void	<a href="#">recompute</a> ( <a href="#">ResultStorage</a> result) Recomputes the result distribution to match the stored values, data for the calculation is taken from the parameter result

#### Methods inherited from class com.google.gwt.user.cellview.client.CellList

dependsOnSelection, doAttachChildren, doDetachChildren, fireEventToCell, getCell, getCellParent, getChildContainer, getEmptyListMessage, getEmptyListWidget, getKeyboardSelectedElement, getLoadingIndicator, getRowElement, isKeyboardNavigationSuppressed, onBlur, onBrowserEvent2, onFocus, onLoadingStateChanged, renderRowValues, resetFocusOnCell, setEmptyListMessage, setEmptyListWidget, setKeyboardSelected, setLoadingIndicator, setSelected, setValueUpdater

#### Methods inherited from class com.google.gwt.user.cellview.client.AbstractHasData

addCellPreviewHandler, addLoadingStateChangeHandler, addRangeChangeHandler, addRowCountChangeHandler, cellConsumesEventType, checkRowBounds, convertToElements, dependsOnSelection, getAccessKey, getChildContainer, getChildElement, getDisplayedItem, getDisplayedItems, getKeyboardPagingPolicy, getKeyboardSelectedElement, getKeyboardSelectedRow, getKeyboardSelectionPolicy, getKeyProvider, getPageSize, getPageStart, getRowContainer, getRowCount, getSelectionModel, getTabIndex, getValueKey, getVisibleItem, getVisibleItemCount, getVisibleItems, getVisibleRange, isKeyboardNavigationSuppressed, isRowCountExact, isRowWithinBounds, onBlur, onBrowserEvent, onBrowserEvent2, onFocus, onLoadingStateChanged, onUnload, redraw, redrawRow, renderRowValues, replaceAllChildren, replaceChildren, resetFocusOnCell, setAccessKey, setFocus, setFocusable, setKeyboardPagingPolicy, setKeyboardSelected, setKeyboardSelectedRow, setKeyboardSelectedRow, setKeyboardSelectionHandler, setKeyboardSelectionPolicy, setPageSize, setPageStart, setRowCount, setRowCount, setRowData, setRowData, setSelected, setSelectionModel, setSelectionModel, setTabIndex, setVisibleRange, setVisibleRange, setVisibleRangeAndClearData

#### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** com.google.gwt.view.client.HasData

getSelectionModel, getVisibleItem, getVisibleItemCount, getVisibleItems, setRowData, setSelectionModel, setVisibleRangeAndClearData

**Methods inherited from interface** com.google.gwt.view.client.HasRows

addRangeChangeHandler, addRowCountChangeHandler, getRowCount, getVisibleRange, isRowCountExact, setRowCount, setRowCount, setVisibleRange, setVisibleRange

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.view.client.HasCellPreviewHandlers

addCellPreviewHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.view.client.HasKeyProvider

getKeyProvider

**Methods inherited from interface** com.google.gwt.user.client.ui.Focusable

getTabIndex, setAccessKey, setFocus, setTabIndex

**Methods inherited from interface** com.google.gwt.user.cellview.client.HasKeyboardPagingPolicy

getKeyboardPagingPolicy, setKeyboardPagingPolicy



---

**Methods inherited from interface** `com.google.gwt.user.cellview.client.HasKeyboardSelectionPolicy`

`getKeyboardSelectionPolicy, setKeyboardSelectionPolicy`

---

## Fields

### **as**

protected `nl.tue.fingerpaint.client.model.ApplicationState` **as**

Reference to the model. Used to set the loaded results.

---

### **fp**

protected `nl.tue.fingerpaint.client.Fingerpaint` **fp**

Fingerpaint class needed for mixing

---

## Constructors

### **LoadResultsCellList**

public `LoadResultsCellList`([Fingerpaint](#) fp,  
[ApplicationState](#) appState)

Construct a new cell list that can be used to select results from all available saved results.

#### **Parameters:**

fp - Reference to the entryPoint, needed to execute the loaded mixing run.

appState - Reference to the model, used to set the selected concentration distribution.

---

## Methods

### **fillCellList**

public void `fillCellList`(`java.util.List` results)

Fills this CellList with the items in results.

#### **Parameters:**

results - List of all initial concentration distributions currently stored in the local storage.

---

### **recompute**

protected void `recompute`([ResultStorage](#) result)

Recomputes the result distribution to match the stored values, data for the calculation is taken from the parameter result

#### **Parameters:**

result - the result containing the initial distribution and the protocol

---

---

Package

**nl.tue.fingerpaint.client.gui.flextables**

## nl.tue.fingerpaint.client.gui.flextables

### Class InitDistFlexTable

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Panel
        |
        +-com.google.gwt.user.client.ui.HTMLTable
          |
          +-com.google.gwt.user.client.ui.FlexTable
            |
            +-nl.tue.fingerpaint.client.gui.flextables.InitDistFlexTable
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget,  
 com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener,  
 com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.event.dom.client.HasDoubleClickHandlers,  
 com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers,  
 com.google.gwt.user.client.ui.SourcesTableEvents

```

public class InitDistFlexTable
  extends com.google.gwt.user.client.ui.FlexTable
  
```

FlexTable that displays all protocols currently stored in the local storage .

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">InitDistFlexTable()</a> Construct a new FlexTable that can be used to display all results currently stored in the local storage.
--------	---

### Method Summary

void	<a href="#">fillFlexTable</a> (java.util.ArrayList initDists, java.lang.String geom) Fills this FlexTable with the items in results.
------	---

#### Methods inherited from class com.google.gwt.user.client.ui.FlexTable

addCell, getCellCount, getFlexCellFormatter, getRowCount, insertCell, insertRow,  
 prepareCell, prepareRow, removeAllRows, removeCell, removeCells, removeRow

#### Methods inherited from class com.google.gwt.user.client.ui.HTMLTable

addClickHandler, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addTableListener, checkCellBounds, checkRowBounds, clear, clear, clearCell, createCell, getBodyElement, getCellCount, getCellForEvent, getCellFormatter, getCellPadding, getCellSpacing, getColumnFormatter, getDOMCellCount, getDOMCellCount, getDOMRowCount, getDOMRowCount, getEventTargetCell, getHTML, getRowCount, getRowFormatter, getText, getWidget, insertCell, insertCells, insertRow, internalClearCell, isCellPresent, iterator, onEnsureDebugId, prepareCell, prepareColumn, prepareRow, remove, removeCell, removeRow, removeTableListener, setBorderWidth, setCellFormatter, setCellPadding, setCellSpacing, setColumnFormatter, setHTML, setHTML, setRowFormatter, setText, setWidget, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

**Methods inherited from interface** java.lang.Iterable

iterator

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesTableEvents

addTableListener, removeTableListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent
-----------

<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDragStartHandlers
--

addDragStartHandler
---------------------

<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
---

fireEvent
-----------

<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDropHandlers
---

addDropHandler
----------------

<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
---

fireEvent
-----------

<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasClickHandlers
--

addClickHandler
-----------------

<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
---

fireEvent
-----------

<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDoubleClickHandlers
--

addDoubleClickHandler
-----------------------

<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
---

fireEvent
-----------

## Constructors

### InitDistFlexTable

```
public InitDistFlexTable()
```

Construct a new FlexTable that can be used to display all results currently stored in the local storage. Also allows for removing these results individually.

## Methods

### fillFlexTable

```
public void fillFlexTable(java.util.ArrayList initDists,
    java.lang.String geom)
```

Fills this FlexTable with the items in results. Also adds a click handler for each item in the FlexTable, to remove the item.

#### Parameters:

- initDists - List of all results currently stored in the local storage.
- geom - Currently selected geometry: used to locate the distribution in the local storage.

## nl.tue.fingerpaint.client.gui.flextables

### Class ProtocolFlexTable

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Panel
        |
        +-com.google.gwt.user.client.ui.HTMLTable
          |
          +-com.google.gwt.user.client.ui.FlexTable
            |
            +-nl.tue.fingerpaint.client.gui.flextables.ProtocolFlexTable
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget,  
 com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener,  
 com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.event.dom.client.HasDoubleClickHandlers,  
 com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers,  
 com.google.gwt.user.client.ui.SourcesTableEvents

```

public class ProtocolFlexTable
  extends com.google.gwt.user.client.ui.FlexTable
  
```

FlexTable that displays all protocols currently stored in the local storage .

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">ProtocolFlexTable()</a> Construct a new FlexTable that can be used to display all results currently stored in the local storage.
--------	---

### Method Summary

void	<a href="#">fillFlexTable</a> (java.util.ArrayList protocols, java.lang.String geom) Fills this FlexTable with the items in results.
------	---

#### Methods inherited from class com.google.gwt.user.client.ui.FlexTable

addCell, getCellCount, getFlexCellFormatter, getRowCount, insertCell, insertRow,  
 prepareCell, prepareRow, removeAllRows, removeCell, removeCells, removeRow

#### Methods inherited from class com.google.gwt.user.client.ui.HTMLTable

addClickHandler, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addTableListener, checkCellBounds, checkRowBounds, clear, clear, clearCell, createCell, getBodyElement, getCellCount, getCellForEvent, getCellFormatter, getCellPadding, getCellSpacing, getColumnFormatter, getDOMCellCount, getDOMCellCount, getDOMRowCount, getDOMRowCount, getEventTargetCell, getHTML, getRowCount, getRowFormatter, getText, getWidget, insertCell, insertCells, insertRow, internalClearCell, isCellPresent, iterator, onEnsureDebugId, prepareCell, prepareColumn, prepareRow, remove, removeCell, removeRow, removeTableListener, setBorderWidth, setCellFormatter, setCellPadding, setCellSpacing, setColumnFormatter, setHTML, setHTML, setRowFormatter, setText, setWidget, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent



**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

**Methods inherited from interface** java.lang.Iterable

iterator

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesTableEvents

addTableListener, removeTableListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

## Constructors

### ProtocolFlexTable

```
public ProtocolFlexTable()
```

Construct a new FlexTable that can be used to display all results currently stored in the local storage. Also allows for removing these results individually.

## Methods

### fillFlexTable

```
public void fillFlexTable(java.util.ArrayList protocols,
    java.lang.String geom)
```

Fills this FlexTable with the items in results. Also adds a click handler for each item in the FlexTable, to remove the item.

#### Parameters:

- protocols - List of all results currently stored in the local storage.
- geom - Currently selected geometry: used to locate the protocol in the local storage.

## nl.tue.fingerpaint.client.gui.flextables

### Class ResultsFlexTable

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Panel
        |
        +-com.google.gwt.user.client.ui.HTMLTable
          |
          +-com.google.gwt.user.client.ui.FlexTable
            |
            +-nl.tue.fingerpaint.client.gui.flextables.ResultsFlexTable
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget,  
 com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener,  
 com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.event.dom.client.HasDoubleClickHandlers,  
 com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers,  
 com.google.gwt.user.client.ui.SourcesTableEvents

```

public class ResultsFlexTable
extends com.google.gwt.user.client.ui.FlexTable
  
```

FlexTable that displays all results currently stored in the local storage.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">ResultsFlexTable()</a> Construct a new FlexTable that can be used to display all results currently stored in the local storage.
--------	--

### Method Summary

void	<a href="#">fillFlexTable</a> (java.util.ArrayList results) Fills this FlexTable with the items in results.
------	--

#### Methods inherited from class com.google.gwt.user.client.ui.FlexTable

addCell, getCellCount, getFlexCellFormatter, getRowCount, insertCell, insertRow,  
 prepareCell, prepareRow, removeAllRows, removeCell, removeCells, removeRow

#### Methods inherited from class com.google.gwt.user.client.ui.HTMLTable

addClickHandler, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addTableListener, checkCellBounds, checkRowBounds, clear, clear, clearCell, createCell, getBodyElement, getCellCount, getCellForEvent, getCellFormatter, getCellPadding, getCellSpacing, getColumnFormatter, getDOMCellCount, getDOMCellCount, getDOMRowCount, getDOMRowCount, getEventTargetCell, getHTML, getRowCount, getRowFormatter, getText, getWidget, insertCell, insertCells, insertRow, internalClearCell, isCellPresent, iterator, onEnsureDebugId, prepareCell, prepareColumn, prepareRow, remove, removeCell, removeRow, removeTableListener, setBorderWidth, setCellFormatter, setCellPadding, setCellSpacing, setColumnFormatter, setHTML, setHTML, setRowFormatter, setText, setWidget, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

<b>Methods inherited from interface</b> com.google.gwt.user.client.ui.IsWidget
asWidget
<b>Methods inherited from interface</b> com.google.gwt.user.client.ui.HasWidgets.ForIsWidget
add, remove
<b>Methods inherited from interface</b> com.google.gwt.user.client.ui.HasWidgets
add, clear, iterator, remove
<b>Methods inherited from interface</b> java.lang.Iterable
iterator
<b>Methods inherited from interface</b> com.google.gwt.user.client.ui.SourcesTableEvents
addTableListener, removeTableListener
<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDragEndHandlers
addDragEndHandler
<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
fireEvent
<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDragEnterHandlers
addDragEnterHandler
<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
fireEvent
<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDragLeaveHandlers
addDragLeaveHandler
<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
fireEvent
<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDragHandlers
addDragHandler
<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
fireEvent
<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDragOverHandlers
addDragOverHandler
<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers

fireEvent
-----------

<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDragStartHandlers
--

addDragStartHandler
---------------------

<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
---

fireEvent
-----------

<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDropHandlers
---

addDropHandler
----------------

<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
---

fireEvent
-----------

<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasClickHandlers
--

addClickHandler
-----------------

<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
---

fireEvent
-----------

<b>Methods inherited from interface</b> com.google.gwt.event.dom.client.HasDoubleClickHandlers
--

addDoubleClickHandler
-----------------------

<b>Methods inherited from interface</b> com.google.gwt.event.shared.HasHandlers
---

fireEvent
-----------

## Constructors

### ResultsFlexTable

```
public ResultsFlexTable()
```

Construct a new FlexTable that can be used to display all results currently stored in the local storage. Also allows for removing these results individually.

## Methods

### fillFlexTable

```
public void fillFlexTable(java.util.ArrayList results)
```

Fills this FlexTable with the items in results. Also adds a click handler for each item in the FlexTable, to remove the item.

#### Parameters:

`results` - List of all results currently stored in the local storage.

---

Package

**nl.tue.fingerpaint.client.gui.labels**

## nl.tue.fingerpaint.client.gui.labels Class DistributionsLabel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.LabelBase
              |
              +- com.google.gwt.user.client.ui.Label
                  |
                  +- nl.tue.fingerpaint.client.gui.labels.DistributionsLabel
  
```

### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasAutoHorizontalAlignment, com.google.gwt.i18n.shared.HasDirectionEstimator, com.google.gwt.user.client.ui.HasWordWrap, com.google.gwt.editor.client.IsEditor, com.google.gwt.event.dom.client.HasAllTouchHandlers, com.google.gwt.event.dom.client.HasAllMouseHandlers, com.google.gwt.event.dom.client.HasAllGestureHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers, com.google.gwt.user.client.ui.SourcesMouseEvents, com.google.gwt.user.client.ui.SourcesClickEvents, com.google.gwt.event.dom.client.HasDoubleClickHandlers, com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.i18n.client.HasDirection, com.google.gwt.user.client.ui.HasDirectionalText

```

public class DistributionsLabel
extends com.google.gwt.user.client.ui.Label
  
```

Header for the distributions submenu.

Fields inherited from class com.google.gwt.user.client.ui.Label
DEFAULT_DIRECTION_ESTIMATOR

Fields inherited from class com.google.gwt.user.client.ui.UIObject
DEBUG_ID_PREFIX

Fields inherited from interface com.google.gwt.user.client.ui.HasAutoHorizontalAlignment
ALIGN_CONTENT_END, ALIGN_CONTENT_START

Fields inherited from interface com.google.gwt.user.client.ui.HasHorizontalAlignment
ALIGN_CENTER, ALIGN_DEFAULT, ALIGN_JUSTIFY, ALIGN_LEFT, ALIGN_LOCALE_END, ALIGN_LOCALE_START, ALIGN_RIGHT

## Constructor Summary

public	<a href="#">DistributionsLabel()</a> Construct the <a href="#">DistributionsLabel</a> .
--------	--

Methods inherited from class com.google.gwt.user.client.ui.Label
--



addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, asEditor, getDirection, getText, getTextDirection, removeClickListener, removeMouseListener, removeMouseWheelListener, setDirection, setText, setText, wrap

#### Methods inherited from class com.google.gwt.user.client.ui.LabelBase

getAutoHorizontalAlignment, getDirectionEstimator, getHorizontalAlignment, getWordWrap, setAutoHorizontalAlignment, setDirectionEstimator, setDirectionEstimator, setHorizontalAlignment, setWordWrap, updateHorizontalAlignment

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWordWrap

getWordWrap, setWordWrap

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

getAutoHorizontalAlignment, setAutoHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasDirectionalText

getTextDirection, setText

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

## Constructors

### DistributionsLabel

```
public DistributionsLabel()
```

Construct the [DistributionsLabel](#).

## nl.tue.fingerpaint.client.gui.labels

### Class DrawingToolLabel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.LabelBase
              |
              +- com.google.gwt.user.client.ui.Label
                  |
                  +- nl.tue.fingerpaint.client.gui.labels.DrawingToolLabel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasAutoHorizontalAlignment, com.google.gwt.i18n.shared.HasDirectionEstimator, com.google.gwt.user.client.ui.HasWordWrap, com.google.gwt.editor.client.IsEditor, com.google.gwt.event.dom.client.HasAllTouchHandlers, com.google.gwt.event.dom.client.HasAllMouseHandlers, com.google.gwt.event.dom.client.HasAllGestureHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers, com.google.gwt.user.client.ui.SourcesMouseEvents, com.google.gwt.user.client.ui.SourcesClickEvents, com.google.gwt.event.dom.client.HasDoubleClickHandlers, com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.i18n.client.HasDirection, com.google.gwt.user.client.ui.HasDirectionalText

```

public class DrawingToolLabel
extends com.google.gwt.user.client.ui.Label
  
```

Header for the drawing tool submenu.

Fields inherited from class com.google.gwt.user.client.ui.Label	
	DEFAULT_DIRECTION_ESTIMATOR
Fields inherited from class com.google.gwt.user.client.ui.UIObject	
	DEBUG_ID_PREFIX
Fields inherited from interface com.google.gwt.user.client.ui.HasAutoHorizontalAlignment	
	ALIGN_CONTENT_END, ALIGN_CONTENT_START
Fields inherited from interface com.google.gwt.user.client.ui.HasHorizontalAlignment	
	ALIGN_CENTER, ALIGN_DEFAULT, ALIGN_JUSTIFY, ALIGN_LEFT, ALIGN_LOCALE_END, ALIGN_LOCALE_START, ALIGN_RIGHT
Constructor Summary	
public	<a href="#">DrawingToolLabel()</a> Construct the <a href="#">DrawingToolLabel</a> .
Methods inherited from class com.google.gwt.user.client.ui.Label	

addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, asEditor, getDirection, getText, getTextDirection, removeClickListener, removeMouseListener, removeMouseWheelListener, setDirection, setText, setText, wrap

#### Methods inherited from class com.google.gwt.user.client.ui.LabelBase

getAutoHorizontalAlignment, getDirectionEstimator, getHorizontalAlignment, getWordWrap, setAutoHorizontalAlignment, setDirectionEstimator, setDirectionEstimator, setHorizontalAlignment, setWordWrap, updateHorizontalAlignment

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWordWrap

getWordWrap, setWordWrap

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

getAutoHorizontalAlignment, setAutoHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasDirectionalText

getTextDirection, setText

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers



addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

## Constructors

### DrawingToolLabel

```
public DrawingToolLabel()
```

Construct the [DrawingToolLabel](#).

## nl.tue.fingerpaint.client.gui.labels

### Class NoFilesFoundLabel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.LabelBase
              |
              +- com.google.gwt.user.client.ui.Label
                  |
                  +- nl.tue.fingerpaint.client.gui.labels.NoFilesFoundLabel
  
```

#### All Implemented Interfaces:

[com.google.gwt.user.client.ui.HasVisibility](#), [com.google.gwt.user.client.ui.IsWidget](#),  
[com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.EventListener](#),  
[com.google.gwt.user.client.ui.HasAutoHorizontalAlignment](#), [com.google.gwt.i18n.shared.HasDirectionEstimator](#),  
[com.google.gwt.user.client.ui.HasWordWrap](#), [com.google.gwt.editor.client.IsEditor](#),  
[com.google.gwt.event.dom.client.HasAllTouchHandlers](#), [com.google.gwt.event.dom.client.HasAllMouseHandlers](#),  
[com.google.gwt.event.dom.client.HasAllGestureHandlers](#),  
[com.google.gwt.event.dom.client.HasAllDragAndDropHandlers](#), [com.google.gwt.user.client.ui.SourcesMouseEvents](#),  
[com.google.gwt.user.client.ui.SourcesClickEvents](#), [com.google.gwt.event.dom.client.HasDoubleClickHandlers](#),  
[com.google.gwt.event.dom.client.HasClickHandlers](#), [com.google.gwt.i18n.client.HasDirection](#),  
[com.google.gwt.user.client.ui.HasDirectionalText](#)

```

public class NoFilesFoundLabel
extends com.google.gwt.user.client.ui.Label
  
```

Label that is used to indicate that there are no saved files found for the selected loading option.

#### Fields inherited from class com.google.gwt.user.client.ui.Label

DEFAULT\_DIRECTION\_ESTIMATOR

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

#### Fields inherited from interface com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

ALIGN\_CONTENT\_END, ALIGN\_CONTENT\_START

#### Fields inherited from interface com.google.gwt.user.client.ui.HasHorizontalAlignment

ALIGN\_CENTER, ALIGN\_DEFAULT, ALIGN\_JUSTIFY, ALIGN\_LEFT, ALIGN\_LOCALE\_END,  
ALIGN\_LOCALE\_START, ALIGN\_RIGHT

## Constructor Summary

public	<a href="#">NoFilesFoundLabel()</a> Construct the <a href="#">SaveMessageLabel</a> .
--------	---

#### Methods inherited from class com.google.gwt.user.client.ui.Label

addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, asEditor, getDirection, getText, getTextDirection, removeClickListener, removeMouseListener, removeMouseWheelListener, setDirection, setText, setText, wrap

#### Methods inherited from class com.google.gwt.user.client.ui.LabelBase

getAutoHorizontalAlignment, getDirectionEstimator, getHorizontalAlignment, getWordWrap, setAutoHorizontalAlignment, setDirectionEstimator, setDirectionEstimator, setHorizontalAlignment, setWordWrap, updateHorizontalAlignment

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWordWrap

getWordWrap, setWordWrap

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

getAutoHorizontalAlignment, setAutoHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasDirectionalText

getTextDirection, setText

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler



**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

## Constructors

### NoFilesFoundLabel

```
public NoFilesFoundLabel()
```

Construct the [SaveMessageLabel](#).

## nl.tue.fingerpaint.client.gui.labels Class ProtocolLabel

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.LabelBase
        |
        +-com.google.gwt.user.client.ui.Label
          |
          +-nl.tue.fingerpaint.client.gui.labels.ProtocolLabel
  
```

### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasAutoHorizontalAlignment, com.google.gwt.i18n.shared.HasDirectionEstimator, com.google.gwt.user.client.ui.HasWordWrap, com.google.gwt.editor.client.IsEditor, com.google.gwt.event.dom.client.HasAllTouchHandlers, com.google.gwt.event.dom.client.HasAllMouseHandlers, com.google.gwt.event.dom.client.HasAllGestureHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers, com.google.gwt.user.client.ui.SourcesMouseEvents, com.google.gwt.user.client.ui.SourcesClickEvents, com.google.gwt.event.dom.client.HasDoubleClickHandlers, com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.i18n.client.HasDirection, com.google.gwt.user.client.ui.HasDirectionalText

```

public class ProtocolLabel
extends com.google.gwt.user.client.ui.Label
  
```

Header for the protocol representation.

<b>Fields inherited from class</b> com.google.gwt.user.client.ui.Label	
	DEFAULT_DIRECTION_ESTIMATOR
<b>Fields inherited from class</b> com.google.gwt.user.client.ui.UIObject	
	DEBUG_ID_PREFIX
<b>Fields inherited from interface</b> com.google.gwt.user.client.ui.HasAutoHorizontalAlignment	
	ALIGN_CONTENT_END, ALIGN_CONTENT_START
<b>Fields inherited from interface</b> com.google.gwt.user.client.ui.HasHorizontalAlignment	
	ALIGN_CENTER, ALIGN_DEFAULT, ALIGN_JUSTIFY, ALIGN_LEFT, ALIGN_LOCALE_END, ALIGN_LOCALE_START, ALIGN_RIGHT
<b>Constructor Summary</b>	
public	<a href="#">ProtocolLabel()</a> Construct the <a href="#">ProtocolLabel</a> .
<b>Methods inherited from class</b> com.google.gwt.user.client.ui.Label	

addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, asEditor, getDirection, getText, getTextDirection, removeClickListener, removeMouseListener, removeMouseWheelListener, setDirection, setText, setText, wrap

#### Methods inherited from class com.google.gwt.user.client.ui.LabelBase

getAutoHorizontalAlignment, getDirectionEstimator, getHorizontalAlignment, getWordWrap, setAutoHorizontalAlignment, setDirectionEstimator, setDirectionEstimator, setHorizontalAlignment, setWordWrap, updateHorizontalAlignment

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWordWrap

getWordWrap, setWordWrap

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

getAutoHorizontalAlignment, setAutoHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasDirectionalText

getTextDirection, setText

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

## Constructors

### ProtocolLabel

```
public ProtocolLabel()
```

Construct the [ProtocolLabel](#).

## nl.tue.fingerpaint.client.gui.labels Class ProtocolRepresentationLabel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.LabelBase
              |
              +- com.google.gwt.user.client.ui.Label
                  |
                  +- nl.tue.fingerpaint.client.gui.labels.ProtocolRepresentationLabel
  
```

### All Implemented Interfaces:

[com.google.gwt.user.client.ui.HasVisibility](#), [com.google.gwt.user.client.ui.IsWidget](#),  
[com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.EventListener](#),  
[com.google.gwt.user.client.ui.HasAutoHorizontalAlignment](#), [com.google.gwt.i18n.shared.HasDirectionEstimator](#),  
[com.google.gwt.user.client.ui.HasWordWrap](#), [com.google.gwt.editor.client.IsEditor](#),  
[com.google.gwt.event.dom.client.HasAllTouchHandlers](#), [com.google.gwt.event.dom.client.HasAllMouseHandlers](#),  
[com.google.gwt.event.dom.client.HasAllGestureHandlers](#),  
[com.google.gwt.event.dom.client.HasAllDragAndDropHandlers](#), [com.google.gwt.user.client.ui.SourcesMouseEvents](#),  
[com.google.gwt.user.client.ui.SourcesClickEvents](#), [com.google.gwt.event.dom.client.HasDoubleClickHandlers](#),  
[com.google.gwt.event.dom.client.HasClickHandlers](#), [com.google.gwt.i18n.client.HasDirection](#),  
[com.google.gwt.user.client.ui.HasDirectionalText](#)

```

public class ProtocolRepresentationLabel
extends com.google.gwt.user.client.ui.Label
  
```

Label in which the protocol is displayed.

Fields inherited from class <a href="#">com.google.gwt.user.client.ui.Label</a>
DEFAULT_DIRECTION_ESTIMATOR

Fields inherited from class <a href="#">com.google.gwt.user.client.ui.UIObject</a>
DEBUG_ID_PREFIX

Fields inherited from interface <a href="#">com.google.gwt.user.client.ui.HasAutoHorizontalAlignment</a>
ALIGN_CONTENT_END, ALIGN_CONTENT_START

Fields inherited from interface <a href="#">com.google.gwt.user.client.ui.HasHorizontalAlignment</a>
ALIGN_CENTER, ALIGN_DEFAULT, ALIGN_JUSTIFY, ALIGN_LEFT, ALIGN_LOCALE_END, ALIGN_LOCALE_START, ALIGN_RIGHT

## Constructor Summary

public	<a href="#">ProtocolRepresentationLabel()</a> Construct the <a href="#">ProtocolRepresentationLabel</a> .
--------	--

Methods inherited from class <a href="#">com.google.gwt.user.client.ui.Label</a>
--



addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, asEditor, getDirection, getText, getTextDirection, removeClickListener, removeMouseListener, removeMouseWheelListener, setDirection, setText, setText, wrap

#### Methods inherited from class com.google.gwt.user.client.ui.LabelBase

getAutoHorizontalAlignment, getDirectionEstimator, getHorizontalAlignment, getWordWrap, setAutoHorizontalAlignment, setDirectionEstimator, setDirectionEstimator, setHorizontalAlignment, setWordWrap, updateHorizontalAlignment

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWordWrap

getWordWrap, setWordWrap

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

getAutoHorizontalAlignment, setAutoHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasDirectionalText

getTextDirection, setText

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

## Constructors

### ProtocolRepresentationLabel

```
public ProtocolRepresentationLabel()
```

Construct the [ProtocolRepresentationLabel](#). Initially, this label is not visible and gets a special ID.

## nl.tue.fingerpaint.client.gui.labels Class ProtocolsLabel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.LabelBase
              |
              +- com.google.gwt.user.client.ui.Label
                  |
                  +- nl.tue.fingerpaint.client.gui.labels.ProtocolsLabel
  
```

### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasAutoHorizontalAlignment, com.google.gwt.i18n.shared.HasDirectionEstimator, com.google.gwt.user.client.ui.HasWordWrap, com.google.gwt.editor.client.IsEditor, com.google.gwt.event.dom.client.HasAllTouchHandlers, com.google.gwt.event.dom.client.HasAllMouseHandlers, com.google.gwt.event.dom.client.HasAllGestureHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers, com.google.gwt.user.client.ui.SourcesMouseEvents, com.google.gwt.user.client.ui.SourcesClickEvents, com.google.gwt.event.dom.client.HasDoubleClickHandlers, com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.i18n.client.HasDirection, com.google.gwt.user.client.ui.HasDirectionalText

```

public class ProtocolsLabel
extends com.google.gwt.user.client.ui.Label
  
```

Header for the protocols submenu.

Fields inherited from class com.google.gwt.user.client.ui.Label	
	DEFAULT_DIRECTION_ESTIMATOR
Fields inherited from class com.google.gwt.user.client.ui.UIObject	
	DEBUG_ID_PREFIX
Fields inherited from interface com.google.gwt.user.client.ui.HasAutoHorizontalAlignment	
	ALIGN_CONTENT_END, ALIGN_CONTENT_START
Fields inherited from interface com.google.gwt.user.client.ui.HasHorizontalAlignment	
	ALIGN_CENTER, ALIGN_DEFAULT, ALIGN_JUSTIFY, ALIGN_LEFT, ALIGN_LOCALE_END, ALIGN_LOCALE_START, ALIGN_RIGHT
Constructor Summary	
public	<a href="#">ProtocolsLabel()</a> Construct the <a href="#">ProtocolsLabel</a> .
Methods inherited from class com.google.gwt.user.client.ui.Label	

addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, asEditor, getDirection, getText, getTextDirection, removeClickListener, removeMouseListener, removeMouseWheelListener, setDirection, setText, setText, wrap

#### Methods inherited from class com.google.gwt.user.client.ui.LabelBase

getAutoHorizontalAlignment, getDirectionEstimator, getHorizontalAlignment, getWordWrap, setAutoHorizontalAlignment, setDirectionEstimator, setDirectionEstimator, setHorizontalAlignment, setWordWrap, updateHorizontalAlignment

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWordWrap

getWordWrap, setWordWrap

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

getAutoHorizontalAlignment, setAutoHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasDirectionalText

getTextDirection, setText

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers



addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

## Constructors

### ProtocolsLabel

```
public ProtocolsLabel()
```

Construct the [ProtocolsLabel](#).

## nl.tue.fingerpaint.client.gui.labels

### Class ResultsLabel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.LabelBase
              |
              +- com.google.gwt.user.client.ui.Label
                  |
                  +- nl.tue.fingerpaint.client.gui.labels.ResultsLabel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasAutoHorizontalAlignment, com.google.gwt.i18n.shared.HasDirectionEstimator, com.google.gwt.user.client.ui.HasWordWrap, com.google.gwt.editor.client.IsEditor, com.google.gwt.event.dom.client.HasAllTouchHandlers, com.google.gwt.event.dom.client.HasAllMouseHandlers, com.google.gwt.event.dom.client.HasAllGestureHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers, com.google.gwt.user.client.ui.SourcesMouseEvents, com.google.gwt.user.client.ui.SourcesClickEvents, com.google.gwt.event.dom.client.HasDoubleClickHandlers, com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.i18n.client.HasDirection, com.google.gwt.user.client.ui.HasDirectionalText

```

public class ResultsLabel
extends com.google.gwt.user.client.ui.Label
  
```

Header for the results submenu.

<b>Fields inherited from class</b> com.google.gwt.user.client.ui.Label	
	DEFAULT_DIRECTION_ESTIMATOR
<b>Fields inherited from class</b> com.google.gwt.user.client.ui.UIObject	
	DEBUG_ID_PREFIX
<b>Fields inherited from interface</b> com.google.gwt.user.client.ui.HasAutoHorizontalAlignment	
	ALIGN_CONTENT_END, ALIGN_CONTENT_START
<b>Fields inherited from interface</b> com.google.gwt.user.client.ui.HasHorizontalAlignment	
	ALIGN_CENTER, ALIGN_DEFAULT, ALIGN_JUSTIFY, ALIGN_LEFT, ALIGN_LOCALE_END, ALIGN_LOCALE_START, ALIGN_RIGHT
<b>Constructor Summary</b>	
public	<a href="#">ResultsLabel</a> () Construct the <a href="#">ResultsLabel</a> .
<b>Methods inherited from class</b> com.google.gwt.user.client.ui.Label	

addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, asEditor, getDirection, getText, getTextDirection, removeClickListener, removeMouseListener, removeMouseWheelListener, setDirection, setText, setText, wrap

#### Methods inherited from class com.google.gwt.user.client.ui.LabelBase

getAutoHorizontalAlignment, getDirectionEstimator, getHorizontalAlignment, getWordWrap, setAutoHorizontalAlignment, setDirectionEstimator, setDirectionEstimator, setHorizontalAlignment, setWordWrap, updateHorizontalAlignment

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWordWrap

getWordWrap, setWordWrap

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

getAutoHorizontalAlignment, setAutoHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasDirectionalText

getTextDirection, setText

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler



**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

## Constructors

### ResultsLabel

```
public ResultsLabel()
```

Construct the [ResultsLabel](#).

## nl.tue.fingerpaint.client.gui.labels

### Class SaveMessageLabel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.LabelBase
              |
              +- com.google.gwt.user.client.ui.Label
                  |
                  +- nl.tue.fingerpaint.client.gui.labels.SaveMessageLabel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasAutoHorizontalAlignment, com.google.gwt.i18n.shared.HasDirectionEstimator, com.google.gwt.user.client.ui.HasWordWrap, com.google.gwt.editor.client.IsEditor, com.google.gwt.event.dom.client.HasAllTouchHandlers, com.google.gwt.event.dom.client.HasAllMouseHandlers, com.google.gwt.event.dom.client.HasAllGestureHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers, com.google.gwt.user.client.ui.SourcesMouseEvents, com.google.gwt.user.client.ui.SourcesClickEvents, com.google.gwt.event.dom.client.HasDoubleClickHandlers, com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.i18n.client.HasDirection, com.google.gwt.user.client.ui.HasDirectionalText

```

public class SaveMessageLabel
extends com.google.gwt.user.client.ui.Label
  
```

Label that is used to indicate that a save was not successful, but it is possible to overwrite.

Fields inherited from class com.google.gwt.user.client.ui.Label	
	DEFAULT_DIRECTION_ESTIMATOR
Fields inherited from class com.google.gwt.user.client.ui.UIObject	
	DEBUG_ID_PREFIX
Fields inherited from interface com.google.gwt.user.client.ui.HasAutoHorizontalAlignment	
	ALIGN_CONTENT_END, ALIGN_CONTENT_START
Fields inherited from interface com.google.gwt.user.client.ui.HasHorizontalAlignment	
	ALIGN_CENTER, ALIGN_DEFAULT, ALIGN_JUSTIFY, ALIGN_LEFT, ALIGN_LOCALE_END, ALIGN_LOCALE_START, ALIGN_RIGHT
Constructor Summary	
public	<a href="#">SaveMessageLabel()</a> Construct the <a href="#">SaveMessageLabel</a> .
Methods inherited from class com.google.gwt.user.client.ui.Label	

addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, asEditor, getDirection, getText, getTextDirection, removeClickListener, removeMouseListener, removeMouseWheelListener, setDirection, setText, setText, wrap

#### Methods inherited from class com.google.gwt.user.client.ui.LabelBase

getAutoHorizontalAlignment, getDirectionEstimator, getHorizontalAlignment, getWordWrap, setAutoHorizontalAlignment, setDirectionEstimator, setDirectionEstimator, setHorizontalAlignment, setWordWrap, updateHorizontalAlignment

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWordWrap

getWordWrap, setWordWrap

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAutoHorizontalAlignment

getAutoHorizontalAlignment, setAutoHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasDirectionalText

getTextDirection, setText

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

## Constructors

### SaveMessageLabel

```
public SaveMessageLabel()
```

Construct the [SaveMessageLabel](#).

---

Package

**nl.tue.fingerpaint.client.gui.menu**



## nl.tue.fingerpaint.client.gui.menu Class MenuLevelSwitcher

java.lang.Object

↳nl.tue.fingerpaint.client.gui.menu.MenuLevelSwitcher

```
public class MenuLevelSwitcher
extends java.lang.Object
```

This class provides some static utility functions to switch to/from a menu on one level to another.

### Field Summary

protected static	<a href="#">level</a> The currently shown menu level.
protected static final	<a href="#">MENU_ANIMATION</a> Animation that is used to switch between the levels in the menu.
public static final	<a href="#">MENU_SWITCH_DURATION</a> Duration of the animation to switch between two menu levels in milliseconds. Value: <b>300</b>

### Constructor Summary

public	<a href="#">MenuLevelSwitcher()</a>
--------	-------------------------------------

### Method Summary

static int	<a href="#">getCurrentLevel()</a> Return the currently shown menu level.
static void	<a href="#">go(int level)</a> Show the given menu level.
static void	<a href="#">go(int level, com.google.gwt.user.client.rpc.AsyncCallback callback)</a> Show the given menu level.
static void	<a href="#">goBack()</a> Go up one level.
static void	<a href="#">goBack(com.google.gwt.user.client.rpc.AsyncCallback callback)</a> Go up one level.
static void	<a href="#">showSub1MenuDefineProtocol()</a> Switch to the level 1 menu in which a user can define a protocol.
static void	<a href="#">showSub1MenuDistributions()</a> Switch to the level 1 menu in which a user can save, load, remove and export distributions.
static void	<a href="#">showSub1MenuResults()</a> Switch to the level 1 menu in which a user can save, load and remove results.

static void	<a href="#">showSub1MenuToolSelector()</a> Switch to the level 1 menu in which a user can change the drawing tool.
static void	<a href="#">showSub2MenuProtocols()</a> Switch to the level 2 menu in which a user can save, load and remove protocols.

#### Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

## Fields

### MENU\_SWITCH\_DURATION

```
public static final int MENU_SWITCH_DURATION
```

Duration of the animation to switch between two menu levels in milliseconds.  
Constant value: **300**

### MENU\_ANIMATION

```
protected static final nl.tue.fingerpaint.client.gui.animation.MarginAnimation
MENU_ANIMATION
```

Animation that is used to switch between the levels in the menu.

### level

```
protected static int level
```

The currently shown menu level.

## Constructors

### MenuLevelSwitcher

```
public MenuLevelSwitcher()
```

## Methods

### getCurrentLevel

```
public static int getCurrentLevel()
```

Return the currently shown menu level.

**Returns:**

0 when main menu is shown, 1 when submenu is shown, et cetera.

### go

```
public static void go(int level)
```

---

(continued from last page)

Show the given menu level.

**Parameters:**

level - Menu level to show.

---

**go**

```
public static void go(int level,  
    com.google.gwt.user.client.rpc.AsyncCallback callback)
```

Show the given menu level.

**Parameters:**

level - Menu level to show.

callback - Callback to call when animation has completed. Ignored when null.

---

**goBack**

```
public static void goBack()
```

Go up one level.

---

**goBack**

```
public static void goBack(com.google.gwt.user.client.rpc.AsyncCallback callback)
```

Go up one level.

**Parameters:**

callback - Callback to call when the animation has completed. Is guaranteed to only be called by AsyncCallback.onSuccess(T) with true as parameter. Ignored when null.

---

**showSub1MenuDefineProtocol**

```
public static void showSub1MenuDefineProtocol()
```

Switch to the level 1 menu in which a user can define a protocol. He/she can also access another submenu where he/she can save, load and remove protocols.

---

**showSub1MenuDistributions**

```
public static void showSub1MenuDistributions()
```

Switch to the level 1 menu in which a user can save, load, remove and export distributions.

---

**showSub1MenuResults**

```
public static void showSub1MenuResults()
```

Switch to the level 1 menu in which a user can save, load and remove results.

---

**showSub1MenuToolSelector**

```
public static void showSub1MenuToolSelector()
```

Switch to the level 1 menu in which a user can change the drawing tool.

---

(continued from last page)

## **showSub2MenuProtocols**

```
public static void showSub2MenuProtocols()
```

Switch to the level 2 menu in which a user can save, load and remove protocols.

---

Package

**nl.tue.fingerpaint.client.gui.panels**

## nl.tue.fingerpaint.client.gui.panels

### Class ComparePopupPanel

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Panel
        |
        +-com.google.gwt.user.client.ui.SimplePanel
          |
          +-com.google.gwt.user.client.ui.PopupPanel
            |
            +-nl.tue.fingerpaint.client.gui.panels.ComparePopupPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.HasOneWidget, com.google.gwt.event.logical.shared.HasCloseHandlers, com.google.gwt.user.client.ui.HasAnimation, com.google.gwt.user.client.EventPreview, com.google.gwt.user.client.ui.SourcesPopupEvents

```

public class ComparePopupPanel
extends com.google.gwt.user.client.ui.PopupPanel
  
```

PopupPanel that can be used to let a user pick two results that need to be compared.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public

[ComparePopupPanel\(\)](#)

Construct a new ComparePopupPanel that can be used to let a user pick two results that need to be compared.

#### Methods inherited from class com.google.gwt.user.client.ui.PopupPanel

addAutoHidePartner, addCloseHandler, addPopupListener, center, getContainerElement, getGlassElement, getGlassStyleName, getOffsetHeight, getOffsetWidth, getPopupLeft, getPopupTop, getStyleElement, getTitle, hide, hide, isAnimationEnabled, isAutoHideEnabled, isAutoHideOnHistoryEventsEnabled, isGlassEnabled, isModal, isPreviewingAllNativeEvents, isShowing, isVisible, onEventPreview, onKeyDownPreview, onKeyPressPreview, onKeyUpPreview, onPreviewNativeEvent, onUnload, removeAutoHidePartner, removePopupListener, setAnimationEnabled, setAutoHideEnabled, setAutoHideOnHistoryEventsEnabled, setGlassEnabled, setGlassStyleName, setHeight, setModal, setPopupPosition, setPopupPositionAndShow, setPreviewingAllNativeEvents, setTitle, setVisible, setWidget, setWidth, show, showRelativeTo

#### Methods inherited from class com.google.gwt.user.client.ui.SimplePanel

add, getContainerElement, getWidget, iterator, remove, setWidget, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

**Methods inherited from interface** java.lang.Iterable

```
iterator
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.HasOneWidget`

```
getWidget, setWidget
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.AcceptsOneWidget`

```
setWidget
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.SourcesPopupEvents`

```
addPopupListener, removePopupListener
```

**Methods inherited from interface** `com.google.gwt.user.client.EventPreview`

```
onEventPreview
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.HasAnimation`

```
isAnimationEnabled, setAnimationEnabled
```

**Methods inherited from interface** `com.google.gwt.event.logical.shared.HasCloseHandlers`

```
addCloseHandler
```

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

## Constructors

### ComparePopupPanel

```
public ComparePopupPanel()
```

Construct a new ComparePopupPanel that can be used to let a user pick two results that need to be compared.

**See Also:**

[ComparePopupPanel](#)



## nl.tue.fingerpaint.client.gui.panels

### Class CompareSelectPopupPanel

```

java.lang.Object
  |-- com.google.gwt.user.client.ui.UIObject
      |-- com.google.gwt.user.client.ui.Widget
          |-- com.google.gwt.user.client.ui.Panel
              |-- com.google.gwt.user.client.ui.SimplePanel
                  |-- com.google.gwt.user.client.ui.PopupPanel
                      |-- nl.tue.fingerpaint.client.gui.panels.CompareSelectPopupPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.HasOneWidget, com.google.gwt.event.logical.shared.HasCloseHandlers, com.google.gwt.user.client.ui.HasAnimation, com.google.gwt.user.client.EventPreview, com.google.gwt.user.client.ui.SourcesPopupEvents

```

public class CompareSelectPopupPanel
extends com.google.gwt.user.client.ui.PopupPanel
  
```

PopupPanel that can be used to let a user pick two results that need to be compared.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public

[CompareSelectPopupPanel\(\)](#)

Construct a new CompareSelectPopupPanel that can be used to let a user pick two results that need to be compared.

#### Methods inherited from class com.google.gwt.user.client.ui.PopupPanel

addAutoHidePartner, addCloseHandler, addPopupListener, center, getContainerElement, getGlassElement, getGlassStyleName, getOffsetHeight, getOffsetWidth, getPopupLeft, getPopupTop, getStyleElement, getTitle, hide, hide, isAnimationEnabled, isAutoHideEnabled, isAutoHideOnHistoryEventsEnabled, isGlassEnabled, isModal, isPreviewingAllNativeEvents, isShowing, isVisible, onEventPreview, onKeyDownPreview, onKeyPressPreview, onKeyUpPreview, onPreviewNativeEvent, onUnload, removeAutoHidePartner, removePopupListener, setAnimationEnabled, setAutoHideEnabled, setAutoHideOnHistoryEventsEnabled, setGlassEnabled, setGlassStyleName, setHeight, setModal, setPopupPosition, setPopupPositionAndShow, setPreviewingAllNativeEvents, setTitle, setVisible, setWidget, setWidth, show, showRelativeTo

#### Methods inherited from class com.google.gwt.user.client.ui.SimplePanel

add, getContainerElement, getWidget, iterator, remove, setWidget, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

#### Methods inherited from interface com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

#### Methods inherited from interface com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

#### Methods inherited from interface java.lang.Iterable

```
iterator
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.HasOneWidget`

```
getWidget, setWidget
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.AcceptsOneWidget`

```
setWidget
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.SourcesPopupEvents`

```
addPopupListener, removePopupListener
```

**Methods inherited from interface** `com.google.gwt.user.client.EventPreview`

```
onEventPreview
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.HasAnimation`

```
isAnimationEnabled, setAnimationEnabled
```

**Methods inherited from interface** `com.google.gwt.event.logical.shared.HasCloseHandlers`

```
addCloseHandler
```

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

## Constructors

### CompareSelectPopupPanel

```
public CompareSelectPopupPanel()
```

Construct a new CompareSelectPopupPanel that can be used to let a user pick two results that need to be compared.

**See Also:**

[CompareSelectPopupPanel](#)

## nl.tue.fingerpaint.client.gui.panels

### Class LoadPopupPanel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Panel
              |
              +- com.google.gwt.user.client.ui.SimplePanel
                  |
                  +- com.google.gwt.user.client.ui.PopupPanel
                      |
                      +- nl.tue.fingerpaint.client.gui.panels.LoadPopupPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.HasOneWidget, com.google.gwt.event.logical.shared.HasCloseHandlers, com.google.gwt.user.client.ui.HasAnimation, com.google.gwt.user.client.EventPreview, com.google.gwt.user.client.ui.SourcesPopupEvents

```

public class LoadPopupPanel
extends com.google.gwt.user.client.ui.PopupPanel
  
```

PopupPanel that can be used to show all available "things" in the local storage, that can be loaded in the application. These "things" can be protocols, distributions, ...

### Field Summary

public static final	<a href="#">LOADING_CLASS</a> Classname that is added to the element when this panel is showing a loading notification. Value: <b>popupPanelLoadingNotification</b>
---------------------	---

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG_ID_PREFIX
-----------------

### Constructor Summary

public	<a href="#">LoadPopupPanel()</a> Construct a new <a href="#">LoadPopupPanel</a> that can be used to show all available "things" in the local storage.
--------	--

### Method Summary

boolean	<a href="#">isLoading()</a> Return if this panel is currently showing a loading indication or not.
void	<a href="#">setIsLoading()</a> Clear this panel, put a label indicating that some loading action is taking place in the panel and show it if it was not visible.
void	<a href="#">setIsLoading(java.lang.String msg)</a> Clear this panel, put a label indicating that some action is taking place in the panel and show it if it was not visible.

void	<a href="#">setTopLeft()</a> Given that the popup is showing, put it at the top left of the screen.
void	<a href="#">show()</a> Put the <a href="#">GuiState.loadVerticalPanel</a> in this panel and show/center it.

**Methods inherited from class** com.google.gwt.user.client.ui.PopupPanel

addAutoHidePartner, addCloseHandler, addPopupListener, center, getContainerElement, getGlassElement, getGlassStyleName, getOffsetHeight, getOffsetWidth, getPopupLeft, getPopupTop, getStyleElement, getTitle, hide, hide, isAnimationEnabled, isAutoHideEnabled, isAutoHideOnHistoryEventsEnabled, isGlassEnabled, isModal, isPreviewingAllNativeEvents, isShowing, isVisible, onEventPreview, onKeyDownPreview, onKeyPressPreview, onKeyUpPreview, onPreviewNativeEvent, onUnload, removeAutoHidePartner, removePopupListener, setAnimationEnabled, setAutoHideEnabled, setAutoHideOnHistoryEventsEnabled, setGlassEnabled, setGlassStyleName, setHeight, setModal, setPopupPosition, setPopupPositionAndShow, setPreviewingAllNativeEvents, setTitle, setVisible, setWidget, setWidth, show, showRelativeTo

**Methods inherited from class** com.google.gwt.user.client.ui.SimplePanel

add, getContainerElement, getWidget, iterator, remove, setWidget, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

**Methods inherited from interface** java.lang.Iterable

iterator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasOneWidget

getWidget, setWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.AcceptsOneWidget

setWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesPopupEvents

addPopupListener, removePopupListener

**Methods inherited from interface** com.google.gwt.user.client.EventPreview

onEventPreview

**Methods inherited from interface** com.google.gwt.user.client.ui.HasAnimation

isAnimationEnabled, setAnimationEnabled

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasCloseHandlers

addCloseHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

## Fields

### LOADING\_CLASS

```
public static final java.lang.String LOADING_CLASS
```

Classname that is added to the element when this panel is showing a loading notification.  
Constant value: `popupPanelLoadingNotification`

## Constructors

### LoadPopupPanel

```
public LoadPopupPanel()
```

Construct a new [LoadPopupPanel](#) that can be used to show all available "things" in the local storage.

**Note:** the [GuiState.loadVerticalPanel](#) needs to be initialised when constructing this panel.

**See Also:**

[LoadPopupPanel](#)

## Methods

### setTopLeft

```
public void setTopLeft()
```

Given that the popup is showing, put it at the top left of the screen.

### isLoading

```
public boolean isLoading()
```

Return if this panel is currently showing a loading indication or not.

**Returns:**

true if a loading indication is showing, false otherwise

### setIsLoading

```
public void setIsLoading()
```

Clear this panel, put a label indicating that some loading action is taking place in the panel and show it if it was not visible.

### setIsLoading

```
public void setIsLoading(java.lang.String msg)
```

Clear this panel, put a label indicating that some action is taking place in the panel and show it if it was not visible.

**Parameters:**

`msg` - The message to show. A default message is used when null. This message indicates that a loading action is taking place.

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**show**

```
public void show()
```

Put the [GuiState.loadVerticalPanel](#) in this panel and show/center it. Also removes the loading class and all related loading stuff from the panel.



## nl.tue.fingerpaint.client.gui.panels

### Class LoadVerticalPanel

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Panel
        |
        +-com.google.gwt.user.client.ui.ComplexPanel
          |
          +-com.google.gwt.user.client.ui.CellPanel
            |
            +-com.google.gwt.user.client.ui.VerticalPanel
              |
              +-nl.tue.fingerpaint.client.gui.panels.LoadVerticalPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.IndexedPanel.ForIsWidget, com.google.gwt.user.client.ui.InsertPanel.ForIsWidget, com.google.gwt.user.client.ui.HasAlignment

```

public class LoadVerticalPanel
extends com.google.gwt.user.client.ui.VerticalPanel
  
```

Panel used in the loading popup

Fields inherited from class com.google.gwt.user.client.ui.UIObject	
	DEBUG_ID_PREFIX
Fields inherited from interface com.google.gwt.user.client.ui.HasHorizontalAlignment	
	ALIGN_CENTER, ALIGN_DEFAULT, ALIGN_JUSTIFY, ALIGN_LEFT, ALIGN_LOCALE_END, ALIGN_LOCALE_START, ALIGN_RIGHT
Fields inherited from interface com.google.gwt.user.client.ui.HasVerticalAlignment	
	ALIGN_BOTTOM, ALIGN_MIDDLE, ALIGN_TOP
Constructor Summary	
public	<a href="#">LoadVerticalPanel()</a>
Method Summary	
void	<a href="#">addList</a> (com.google.gwt.user.cellview.client.CellList list) Adds a "no saved files found" to the loadVerticalPanel if the parameter list is empty, removes this label if not
Methods inherited from class com.google.gwt.user.client.ui.VerticalPanel	
	add, getHorizontalAlignment, getVerticalAlignment, insert, insert, onEnsureDebugId, remove, setHorizontalAlignment, setVerticalAlignment

**Methods inherited from class** com.google.gwt.user.client.ui.CellPanel

getBody, getSpacing, getTable, setBorderWidth, setCellHeight, setCellHeight, setCellHorizontalAlignment, setCellHorizontalAlignment, setCellHorizontalAlignment, setCellVerticalAlignment, setCellVerticalAlignment, setCellVerticalAlignment, setCellWidth, setCellWidth, setSpacing

**Methods inherited from class** com.google.gwt.user.client.ui.ComplexPanel

add, adjustIndex, checkIndexBoundsForAccess, checkIndexBoundsForInsertion, getChildren, getWidget, getWidgetCount, getWidgetIndex, getWidgetIndex, insert, insert, iterator, remove, remove

**Methods inherited from class** com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

**Methods inherited from interface** java.lang.Iterable

iterator

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel.ForIsWidget

getWidgetIndex

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel

getWidget, getWidgetCount, getWidgetIndex, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVerticalAlignment

getVerticalAlignment, setVerticalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.InsertPanel.ForIsWidget

add, insert

**Methods inherited from interface** com.google.gwt.user.client.ui.InsertPanel

add, insert

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel

getWidget, getWidgetCount, getWidgetIndex, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel.ForIsWidget

getWidgetIndex

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel

getWidget, getWidgetCount, getWidgetIndex, remove

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## Constructors

### LoadVerticalPanel

```
public LoadVerticalPanel()
```

## Methods

### addList

```
public void addList(com.google.gwt.user.cellview.client.CellList list)
```

Adds a "no saved files found" to the loadVerticalPanel if the parameter list is empty, removes this label if not

#### Parameters:

`list` - the list that should be checked to see if the noFilesFoundLabel should be added

#### Throws:

`NullPointerException` - if `list == null`

## nl.tue.fingerpaint.client.gui.panels

### Class NotificationPopupPanel

java.lang.Object

└-nl.tue.fingerpaint.client.gui.panels.NotificationPopupPanel

```
public class NotificationPopupPanel
extends java.lang.Object
```

A panel to show a notification message.

#### Field Summary

public static final	<a href="#">ANIMATION_DURATION</a> Duration of animation to show/hide a notification. Value: <b>200</b>
protected	<a href="#">messageLabel</a> Label that contains the message to show.
public static final	<a href="#">NOTIFICATION_CLASS</a> Classname that is always added to this panel. Value: <b>popupPanelNotification</b>
public static final	<a href="#">NOTIFICATION_CLASS_ERROR</a> Classname that is added to this panel when it holds an error message. Value: <b>popupPanelNotificationError</b>
public static final	<a href="#">NOTIFICATION_CLASS_INFO</a> Classname that is added to this panel when it holds an info message. Value: <b>popupPanelNotificationInfo</b>
public static final	<a href="#">NOTIFICATION_CLASS_SUCCESS</a> Classname that is added to this panel when it holds a message to indicate success. Value: <b>popupPanelNotificationSuccess</b>
protected	<a href="#">panel</a> Actual notification panel.
protected	<a href="#">timeOut</a> How long the notification panel will be visible.
public static final	<a href="#">TYPE_ERROR</a> Identifier that can be used in <a href="#">NotificationPopupPanel(String, int)</a> to construct a notification with an error message. Value: <b>1</b>
public static final	<a href="#">TYPE_INFO</a> Identifier that can be used in <a href="#">NotificationPopupPanel(String, int)</a> to construct a notification with an information message. Value: <b>0</b>

public static final	<p><a href="#">TYPE_SUCCESS</a></p> <p>Identifier that can be used in <a href="#">NotificationPopupPanel(String, int)</a> to construct a notification with a message indicating success.</p> <p>Value: <b>2</b></p>
---------------------	---

## Constructor Summary

public	<p><a href="#">NotificationPopupPanel</a>(java.lang.String message)</p> <p>Creates a <a href="#">NotificationPopupPanel</a> with the message message.</p>
public	<p><a href="#">NotificationPopupPanel</a>(java.lang.String message, int msgType)</p> <p>Creates a <a href="#">NotificationPopupPanel</a> with the message message.</p>

## Method Summary

void	<p><a href="#">hide</a>()</p> <p>Hides this NotificationPanel.</p>
void	<p><a href="#">setTopLeft</a>()</p> <p>Put the pop up panel at the top left of the screen.</p>
void	<p><a href="#">show</a>(int timeOut)</p> <p>Shows this NotificationPanel for the timeout milliseconds.</p>

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Fields

### ANIMATION\_DURATION

public static final int **ANIMATION\_DURATION**

Duration of animation to show/hide a notification.  
Constant value: **200**

### NOTIFICATION\_CLASS

public static final java.lang.String **NOTIFICATION\_CLASS**

Classname that is always added to this panel.  
Constant value: **popupPanelNotification**

### NOTIFICATION\_CLASS\_INFO

public static final java.lang.String **NOTIFICATION\_CLASS\_INFO**

Classname that is added to this panel when it holds an info message.  
Constant value: **popupPanelNotificationInfo**

### NOTIFICATION\_CLASS\_ERROR

public static final java.lang.String **NOTIFICATION\_CLASS\_ERROR**

---

(continued from last page)

Classname that is added to this panel when it holds an error message.  
Constant value: **popupPanelNotificationError**

---

## NOTIFICATION\_CLASS\_SUCCESS

```
public static final java.lang.String NOTIFICATION_CLASS_SUCCESS
```

Classname that is added to this panel when it holds a message to indicate success.  
Constant value: **popupPanelNotificationSuccess**

---

## TYPE\_INFO

```
public static final int TYPE_INFO
```

Identifier that can be used in [NotificationPopupPanel\(String, int\)](#) to construct a notification with an information message.  
Constant value: **0**

---

## TYPE\_ERROR

```
public static final int TYPE_ERROR
```

Identifier that can be used in [NotificationPopupPanel\(String, int\)](#) to construct a notification with an error message.  
Constant value: **1**

---

## TYPE\_SUCCESS

```
public static final int TYPE_SUCCESS
```

Identifier that can be used in [NotificationPopupPanel\(String, int\)](#) to construct a notification with a message indicating success.  
Constant value: **2**

---

## timeOut

```
protected int timeOut
```

How long the notification panel will be visible.

---

## messageLabel

```
protected com.google.gwt.user.client.ui.Label messageLabel
```

Label that contains the message to show.

---

## panel

```
protected com.google.gwt.user.client.ui.PopupPanel panel
```

Actual notification panel.

## Constructors

### NotificationPopupPanel

```
public NotificationPopupPanel(java.lang.String message)
```

Creates a [NotificationPopupPanel](#) with the message message.

---

---

(continued from last page)

**Parameters:**

message - The message to show in the notification.

---

## NotificationPopupPanel

```
public NotificationPopupPanel(java.lang.String message,  
                               int msgType)
```

Creates a [NotificationPopupPanel](#) with the message message.

**Parameters:**

message - The message to show in the notification.

msgType - The type of the message. Should be either [TYPE\\_INFO](#), [TYPE\\_ERROR](#) or [TYPE\\_SUCCESS](#). When not one of these three, [TYPE\\_SUCCESS](#) is used.

## Methods

### setTopLeft

```
public void setTopLeft()
```

Put the pop up panel at the top left of the screen. If it was not visible, show it.

---

### hide

```
public void hide()
```

Hides this NotificationPanel.

---

### show

```
public void show(int timeOut)
```

Shows this NotificationPanel for the timeout milliseconds.

**Parameters:**

timeOut - The amount of time, in milliseconds, this panel is shown. When less than 0, the panel will be shown indefinitely. (That is, until it is hidden manually.) When exactly 0, the panel will not be shown.



## nl.tue.fingerpaint.client.gui.panels

### Class OverwriteSavePopupPanel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Panel
              |
              +- com.google.gwt.user.client.ui.SimplePanel
                  |
                  +- com.google.gwt.user.client.ui.PopupPanel
                      |
                      +- nl.tue.fingerpaint.client.gui.panels.OverwriteSavePopupPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.HasOneWidget, com.google.gwt.event.logical.shared.HasCloseHandlers, com.google.gwt.user.client.ui.HasAnimation, com.google.gwt.user.client.EventPreview, com.google.gwt.user.client.ui.SourcesPopupEvents

```

public class OverwriteSavePopupPanel
extends com.google.gwt.user.client.ui.PopupPanel
  
```

PopupPanel that can be used to let a user indicate he/she wants to overwrite an already existing item.

#### See Also:

[OverwriteSaveButton](#)

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">OverwriteSavePopupPanel()</a> Construct a new <a href="#">OverwriteSavePopupPanel</a> that can be used to let a user overwrite an already saved item.
--------	--

#### Methods inherited from class com.google.gwt.user.client.ui.PopupPanel

addAutoHidePartner, addCloseHandler, addPopupListener, center, getContainerElement, getGlassElement, getGlassStyleName, getOffsetHeight, getOffsetWidth, getPopupLeft, getPopupTop, getStyleElement, getTitle, hide, hide, isAnimationEnabled, isAutoHideEnabled, isAutoHideOnHistoryEventsEnabled, isGlassEnabled, isModal, isPreviewingAllNativeEvents, isShowing, isVisible, onEventPreview, onKeyDownPreview, onKeyPressPreview, onKeyUpPreview, onPreviewNativeEvent, onUnload, removeAutoHidePartner, removePopupListener, setAnimationEnabled, setAutoHideEnabled, setAutoHideOnHistoryEventsEnabled, setGlassEnabled, setGlassStyleName, setHeight, setModal, setPopupPosition, setPopupPositionAndShow, setPreviewingAllNativeEvents, setTitle, setVisible, setWidget, setWidth, show, showRelativeTo

#### Methods inherited from class com.google.gwt.user.client.ui.SimplePanel

add, getContainerElement, getWidget, iterator, remove, setWidget, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

**Methods inherited from interface** `java.lang.Iterable``iterator`**Methods inherited from interface** `com.google.gwt.user.client.ui.HasOneWidget``getWidget, setWidget`**Methods inherited from interface** `com.google.gwt.user.client.ui.AcceptsOneWidget``setWidget`**Methods inherited from interface** `com.google.gwt.user.client.ui.SourcesPopupEvents``addPopupListener, removePopupListener`**Methods inherited from interface** `com.google.gwt.user.client.EventPreview``onEventPreview`**Methods inherited from interface** `com.google.gwt.user.client.ui.HasAnimation``isAnimationEnabled, setAnimationEnabled`**Methods inherited from interface** `com.google.gwt.event.logical.shared.HasCloseHandlers``addCloseHandler`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`

## Constructors

### OverwriteSavePopupPanel

```
public OverwriteSavePopupPanel()
```

Construct a new [OverwriteSavePopupPanel](#) that can be used to let a user overwrite an already saved item.

**See Also:**

[OverwriteSavePopupPanel](#)

## nl.tue.fingerpaint.client.gui.panels

### Class RemoveResultsPopupPanel

```

java.lang.Object
  +- com.google.gwt.user.client.ui.UIObject
    +- com.google.gwt.user.client.ui.Widget
      +- com.google.gwt.user.client.ui.Panel
        +- com.google.gwt.user.client.ui.SimplePanel
          +- com.google.gwt.user.client.ui.PopupPanel
            +- nl.tue.fingerpaint.client.gui.panels.RemoveResultsPopupPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.HasOneWidget, com.google.gwt.event.logical.shared.HasCloseHandlers, com.google.gwt.user.client.ui.HasAnimation, com.google.gwt.user.client.EventPreview, com.google.gwt.user.client.ui.SourcesPopupEvents

```

public class RemoveResultsPopupPanel
extends com.google.gwt.user.client.ui.PopupPanel
  
```

PopupPanel that can be used to let a user remove saved results from the local storage.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">RemoveResultsPopupPanel()</a> Construct a new <a href="#">RemoveResultsPopupPanel</a> that can be used to let a user remove saved results.
--------	---

#### Methods inherited from class com.google.gwt.user.client.ui.PopupPanel

addAutoHidePartner, addCloseHandler, addPopupListener, center, getContainerElement, getGlassElement, getGlassStyleName, getOffsetHeight, getOffsetWidth, getPopupLeft, getPopupTop, getStyleElement, getTitle, hide, hide, isAnimationEnabled, isAutoHideEnabled, isAutoHideOnHistoryEventsEnabled, isGlassEnabled, isModal, isPreviewingAllNativeEvents, isShowing, isVisible, onEventPreview, onKeyDownPreview, onKeyPressPreview, onKeyUpPreview, onPreviewNativeEvent, onUnload, removeAutoHidePartner, removePopupListener, setAnimationEnabled, setAutoHideEnabled, setAutoHideOnHistoryEventsEnabled, setGlassEnabled, setGlassStyleName, setHeight, setModal, setPopupPosition, setPopupPositionAndShow, setPreviewingAllNativeEvents, setTitle, setVisible, setWidget, setWidth, show, showRelativeTo

#### Methods inherited from class com.google.gwt.user.client.ui.SimplePanel

add, getContainerElement, getWidget, iterator, remove, setWidget, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

**Methods inherited from interface** java.lang.Iterable

---

```
iterator
```

```
Methods inherited from interface com.google.gwt.user.client.ui.HasOneWidget
```

```
getWidget, setWidget
```

```
Methods inherited from interface com.google.gwt.user.client.ui.AcceptsOneWidget
```

```
setWidget
```

```
Methods inherited from interface com.google.gwt.user.client.ui.SourcesPopupEvents
```

```
addPopupListener, removePopupListener
```

```
Methods inherited from interface com.google.gwt.user.client.EventPreview
```

```
onEventPreview
```

```
Methods inherited from interface com.google.gwt.user.client.ui.HasAnimation
```

```
isAnimationEnabled, setAnimationEnabled
```

```
Methods inherited from interface com.google.gwt.event.logical.shared.HasCloseHandlers
```

```
addCloseHandler
```

```
Methods inherited from interface com.google.gwt.event.shared.HasHandlers
```

```
fireEvent
```

---

## Constructors

### RemoveResultsPopupPanel

```
public RemoveResultsPopupPanel()
```

Construct a new [RemoveResultsPopupPanel](#) that can be used to let a user remove saved results.

**See Also:**

[RemoveResultsPopupPanel](#)

## nl.tue.fingerpaint.client.gui.panels

### Class RemoveResultsVerticalPanel

```

java.lang.Object
  |--com.google.gwt.user.client.ui.UIObject
    |--com.google.gwt.user.client.ui.Widget
      |--com.google.gwt.user.client.ui.Panel
        |--com.google.gwt.user.client.ui.ComplexPanel
          |--com.google.gwt.user.client.ui.CellPanel
            |--com.google.gwt.user.client.ui.VerticalPanel
              |--nl.tue.fingerpaint.client.gui.panels.RemoveResultsVerticalPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.IndexedPanel.ForIsWidget, com.google.gwt.user.client.ui.InsertPanel.ForIsWidget, com.google.gwt.user.client.ui.HasAlignment

```

public class RemoveResultsVerticalPanel
extends com.google.gwt.user.client.ui.VerticalPanel
  
```

Panel used in the loading popup

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

#### Fields inherited from interface com.google.gwt.user.client.ui.HasHorizontalAlignment

ALIGN\_CENTER, ALIGN\_DEFAULT, ALIGN\_JUSTIFY, ALIGN\_LEFT, ALIGN\_LOCALE\_END, ALIGN\_LOCALE\_START, ALIGN\_RIGHT

#### Fields inherited from interface com.google.gwt.user.client.ui.HasVerticalAlignment

ALIGN\_BOTTOM, ALIGN\_MIDDLE, ALIGN\_TOP

## Constructor Summary

public [RemoveResultsVerticalPanel\(\)](#)

## Method Summary

void [addList](#)(com.google.gwt.user.client.ui.FlexTable list)  
Adds the parameter list to this panel, adds a noFilesFoundLabel instead if the list is empty

#### Methods inherited from class com.google.gwt.user.client.ui.VerticalPanel

add, getHorizontalAlignment, getVerticalAlignment, insert, insert, onEnsureDebugId, remove, setHorizontalAlignment, setVerticalAlignment

**Methods inherited from class** com.google.gwt.user.client.ui.CellPanel

getBody, getSpacing, getTable, setBorderWidth, setCellHeight, setCellHeight, setCellHorizontalAlignment, setCellHorizontalAlignment, setCellHorizontalAlignment, setCellVerticalAlignment, setCellVerticalAlignment, setCellVerticalAlignment, setCellWidth, setCellWidth, setSpacing

**Methods inherited from class** com.google.gwt.user.client.ui.ComplexPanel

add, adjustIndex, checkIndexBoundsForAccess, checkIndexBoundsForInsertion, getChildren, getWidget, getWidgetCount, getWidgetIndex, getWidgetIndex, insert, insert, iterator, remove, remove

**Methods inherited from class** com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent



**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

**Methods inherited from interface** java.lang.Iterable

iterator

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel.ForIsWidget

getWidgetIndex

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel

getWidget, getWidgetCount, getWidgetIndex, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.HasHorizontalAlignment

getHorizontalAlignment, setHorizontalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVerticalAlignment

getVerticalAlignment, setVerticalAlignment

**Methods inherited from interface** com.google.gwt.user.client.ui.InsertPanel.ForIsWidget

add, insert

**Methods inherited from interface** com.google.gwt.user.client.ui.InsertPanel

add, insert

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel

getWidget, getWidgetCount, getWidgetIndex, remove

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel.ForIsWidget

getWidgetIndex

**Methods inherited from interface** com.google.gwt.user.client.ui.IndexedPanel

getWidget, getWidgetCount, getWidgetIndex, remove

## Constructors

(continued from last page)

## RemoveResultsVerticalPanel

```
public RemoveResultsVerticalPanel()
```

## Methods

### addList

```
public void addList(com.google.gwt.user.client.ui.FlexTable list)
```

Adds the parameter list to this panel, adds a noFilesFoundLabel instead if the list is empty

#### Parameters:

`list` - the list that should be checked to see if the noFilesFoundLabel should be added It is considered empty if only the head of the list (consisting of the labels) is present

#### Throws:

`NullPointerException` - if list == null

## nl.tue.fingerpaint.client.gui.panels

### Class SaveItemPopupPanel

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Panel
              |
              +- com.google.gwt.user.client.ui.SimplePanel
                  |
                  +- com.google.gwt.user.client.ui.PopupPanel
                      |
                      +- nl.tue.fingerpaint.client.gui.panels.SaveItemPopupPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.HasOneWidget, com.google.gwt.event.logical.shared.HasCloseHandlers, com.google.gwt.user.client.ui.HasAnimation, com.google.gwt.user.client.EventPreview, com.google.gwt.user.client.ui.SourcesPopupEvents

```

public class SaveItemPopupPanel
extends com.google.gwt.user.client.ui.PopupPanel
  
```

PopupPanel that can be used to let a user input a name for an item to save. An item can be a distribution, protocol, ...

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">SaveItemPopupPanel()</a> Construct a new <a href="#">SaveItemPopupPanel</a> that can be used to let a user save an item.
--------	---

#### Methods inherited from class com.google.gwt.user.client.ui.PopupPanel

addAutoHidePartner, addCloseHandler, addPopupListener, center, getContainerElement, getGlassElement, getGlassStyleName, getOffsetHeight, getOffsetWidth, getPopupLeft, getPopupTop, getStyleElement, getTitle, hide, hide, isAnimationEnabled, isAutoHideEnabled, isAutoHideOnHistoryEventsEnabled, isGlassEnabled, isModal, isPreviewingAllNativeEvents, isShowing, isVisible, onEventPreview, onKeyDownPreview, onKeyPressPreview, onKeyUpPreview, onPreviewNativeEvent, onUnload, removeAutoHidePartner, removePopupListener, setAnimationEnabled, setAutoHideEnabled, setAutoHideOnHistoryEventsEnabled, setGlassEnabled, setGlassStyleName, setHeight, setModal, setPopupPosition, setPopupPositionAndShow, setPreviewingAllNativeEvents, setTitle, setVisible, setWidget, setWidth, show, showRelativeTo

#### Methods inherited from class com.google.gwt.user.client.ui.SimplePanel

add, getContainerElement, getWidget, iterator, remove, setWidget, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

#### Methods inherited from interface com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

#### Methods inherited from interface com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

#### Methods inherited from interface java.lang.Iterable

```
iterator
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.HasOneWidget`

```
getWidget, setWidget
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.AcceptsOneWidget`

```
setWidget
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.SourcesPopupEvents`

```
addPopupListener, removePopupListener
```

**Methods inherited from interface** `com.google.gwt.user.client.EventPreview`

```
onEventPreview
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.HasAnimation`

```
isAnimationEnabled, setAnimationEnabled
```

**Methods inherited from interface** `com.google.gwt.event.logical.shared.HasCloseHandlers`

```
addCloseHandler
```

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

## Constructors

### SaveItemPopupPanel

```
public SaveItemPopupPanel()
```

Construct a new [SaveItemPopupPanel](#) that can be used to let a user save an item.

**See Also:**

[SaveItemPopupPanel](#)

## nl.tue.fingerpaint.client.gui.panels

### Class ViewSingleGraphPopupPanel

```

java.lang.Object
  |-- com.google.gwt.user.client.ui.UIObject
      |-- com.google.gwt.user.client.ui.Widget
          |-- com.google.gwt.user.client.ui.Panel
              |-- com.google.gwt.user.client.ui.SimplePanel
                  |-- com.google.gwt.user.client.ui.PopupPanel
                      |-- nl.tue.fingerpaint.client.gui.panels.ViewSingleGraphPopupPanel
  
```

#### All Implemented Interfaces:

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.HasWidgets.ForIsWidget, com.google.gwt.user.client.ui.HasOneWidget, com.google.gwt.event.logical.shared.HasCloseHandlers, com.google.gwt.user.client.ui.HasAnimation, com.google.gwt.user.client.EventPreview, com.google.gwt.user.client.ui.SourcesPopupEvents

```

public class ViewSingleGraphPopupPanel
extends com.google.gwt.user.client.ui.PopupPanel
  
```

PopupPanel that can be used to view a graph with the performance of a result.

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public

[ViewSingleGraphPopupPanel\(\)](#)

Construct a new [ViewSingleGraphPopupPanel](#) that can be used to let a user view a graph with the performance of a result.

#### Methods inherited from class com.google.gwt.user.client.ui.PopupPanel

addAutoHidePartner, addCloseHandler, addPopupListener, center, getContainerElement, getGlassElement, getGlassStyleName, getOffsetHeight, getOffsetWidth, getPopupLeft, getPopupTop, getStyleElement, getTitle, hide, hide, isAnimationEnabled, isAutoHideEnabled, isAutoHideOnHistoryEventsEnabled, isGlassEnabled, isModal, isPreviewingAllNativeEvents, isShowing, isVisible, onEventPreview, onKeyDownPreview, onKeyPressPreview, onKeyUpPreview, onPreviewNativeEvent, onUnload, removeAutoHidePartner, removePopupListener, setAnimationEnabled, setAutoHideEnabled, setAutoHideOnHistoryEventsEnabled, setGlassEnabled, setGlassStyleName, setHeight, setModal, setPopupPosition, setPopupPositionAndShow, setPreviewingAllNativeEvents, setTitle, setVisible, setWidget, setWidth, show, showRelativeTo

#### Methods inherited from class com.google.gwt.user.client.ui.SimplePanel

add, getContainerElement, getWidget, iterator, remove, setWidget, setWidget

#### Methods inherited from class com.google.gwt.user.client.ui.Panel

add, add, adopt, adopt, clear, disown, doAttachChildren, doDetachChildren, orphan, remove, remove

#### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

#### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Methods inherited from interface com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

#### Methods inherited from interface com.google.gwt.user.client.EventListener

onBrowserEvent

#### Methods inherited from interface com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

#### Methods inherited from interface com.google.gwt.event.shared.HasHandlers

fireEvent

#### Methods inherited from interface com.google.gwt.user.client.ui.IsWidget

asWidget

#### Methods inherited from interface com.google.gwt.user.client.ui.HasWidgets.ForIsWidget

add, remove

#### Methods inherited from interface com.google.gwt.user.client.ui.HasWidgets

add, clear, iterator, remove

#### Methods inherited from interface java.lang.Iterable

```
iterator
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.HasOneWidget`

```
getWidget, setWidget
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.AcceptsOneWidget`

```
setWidget
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.SourcesPopupEvents`

```
addPopupListener, removePopupListener
```

**Methods inherited from interface** `com.google.gwt.user.client.EventPreview`

```
onEventPreview
```

**Methods inherited from interface** `com.google.gwt.user.client.ui.HasAnimation`

```
isAnimationEnabled, setAnimationEnabled
```

**Methods inherited from interface** `com.google.gwt.event.logical.shared.HasCloseHandlers`

```
addCloseHandler
```

**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers`

```
fireEvent
```

## Constructors

### ViewSingleGraphPopupPanel

```
public ViewSingleGraphPopupPanel()
```

Construct a new [ViewSingleGraphPopupPanel](#) that can be used to let a user view a graph with the performance of a result.

**See Also:**

[ViewSingleGraphPopupPanel](#)



---

Package

**nl.tue.fingerpaint.client.gui.spinners**

## nl.tue.fingerpaint.client.gui.spinners

### Class CursorSizeSpinner

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- nl.tue.fingerpaint.client.gui.spinners.NumberSpinner
                  |
                  +- nl.tue.fingerpaint.client.gui.spinners.CursorSizeSpinner
  
```

#### All Implemented Interfaces:

[NumberSpinnerListener](#), com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.event.dom.client.MouseOutHandler, com.google.gwt.event.dom.client.MouseMoveHandler, com.google.gwt.event.dom.client.MouseDownHandler, com.google.gwt.event.dom.client.KeyUpHandler, com.google.gwt.event.dom.client.ChangeHandler

```

public class CursorSizeSpinner
  extends NumberSpinner
  implements com.google.gwt.event.dom.client.ChangeHandler,
  com.google.gwt.event.dom.client.KeyUpHandler, com.google.gwt.event.dom.client.MouseDownHandler,
  com.google.gwt.event.dom.client.MouseMoveHandler,
  com.google.gwt.event.dom.client.MouseOutHandler, com.google.gwt.user.client.ui.IsRenderable,
  com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers,
  com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility,
  NumberSpinnerListener
  
```

Numberspinner that can be used to change the size of the drawing tool.

Field Summary	
protected	<a href="#">as</a> Reference to the model.
protected static final	<a href="#">DEFAULT_MAX</a> The maximum value of this spinner. Value: <b>50.0</b>
protected static final	<a href="#">DEFAULT_MIN</a> The minimum value of this spinner. Value: <b>1.0</b>
protected static final	<a href="#">DEFAULT_RATE</a> The rate of this spinner. Value: <b>1.0</b>
protected static final	<a href="#">DEFAULT_VALUE</a> The default value of this spinner. Value: <b>3.0</b>

**Fields inherited from class** com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">CursorSizeSpinner</a> ( <a href="#">ApplicationState</a> appState) Creates a new numberspinner that can be used to change the size of the drawing tool.
--------	--

## Method Summary

void	<a href="#">onValueChange</a> (double value, double roundedValue) Sets the size of the drawing tool to value.
------	--

### Methods inherited from class [nl.tue.fingerpaint.client.gui.spinners.NumberSpinner](#)

[getRoundedValue](#), [getValue](#), [onChange](#), [onKeyUp](#), [onMouseDown](#), [onMouseMove](#), [onMouseOut](#), [setRate](#), [setSpinnerListener](#), [setValue](#), [setValue](#)

### Methods inherited from class [com.google.gwt.user.client.ui.Composite](#)

[claimElement](#), [getWidget](#), [initializeClaimedElement](#), [initWidget](#), [isAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [render](#), [render](#), [resolvePotentialElement](#), [setWidget](#)

### Methods inherited from class [com.google.gwt.user.client.ui.Widget](#)

[addAttachHandler](#), [addBitlessDomHandler](#), [addDomHandler](#), [addHandler](#), [asWidget](#), [asWidgetOrNull](#), [createHandlerManager](#), [delegateEvent](#), [doAttachChildren](#), [doDetachChildren](#), [fireEvent](#), [getHandlerCount](#), [getLayoutData](#), [getParent](#), [isAttached](#), [isOrWasAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [onLoad](#), [onUnload](#), [removeFromParent](#), [setLayoutData](#), [sinkEvents](#)

### Methods inherited from class [com.google.gwt.user.client.ui.UIObject](#)

[addStyleDependentName](#), [addStyleName](#), [ensureDebugId](#), [ensureDebugId](#), [ensureDebugId](#), [getAbsoluteLeft](#), [getAbsoluteTop](#), [getElement](#), [getOffsetHeight](#), [getOffsetWidth](#), [getStyleElement](#), [getStyleName](#), [getStyleName](#), [getStylePrimaryName](#), [getStylePrimaryName](#), [getTitle](#), [isVisible](#), [isVisible](#), [onEnsureDebugId](#), [removeStyleDependentName](#), [removeStyleName](#), [resolvePotentialElement](#), [setElement](#), [setElement](#), [setHeight](#), [setPixelSize](#), [setSize](#), [setStyleDependentName](#), [setStyleName](#), [setStyleName](#), [setStyleName](#), [setStylePrimaryName](#), [setStylePrimaryName](#), [setTitle](#), [setVisible](#), [setVisible](#), [setWidth](#), [sinkBitlessEvent](#), [sinkEvents](#), [toString](#), [unsinkEvents](#)

### Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

### Methods inherited from interface [com.google.gwt.user.client.ui.HasVisibility](#)

[isVisible](#), [setVisible](#)

### Methods inherited from interface [com.google.gwt.user.client.EventListener](#)

[onBrowserEvent](#)

### Methods inherited from interface [com.google.gwt.event.logical.shared.HasAttachHandlers](#)

addAttachHandler, isAttached

**Methods inherited from interface** [com.google.gwt.event.shared.HasHandlers](#)

fireEvent

**Methods inherited from interface** [com.google.gwt.user.client.ui.IsWidget](#)

asWidget

**Methods inherited from interface** [com.google.gwt.user.client.ui.IsRenderable](#)

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** [com.google.gwt.event.dom.client.ChangeHandler](#)

onChange

**Methods inherited from interface** [com.google.gwt.event.dom.client.KeyUpHandler](#)

onKeyUp

**Methods inherited from interface** [com.google.gwt.event.dom.client.MouseDownHandler](#)

onMouseDown

**Methods inherited from interface** [com.google.gwt.event.dom.client.MouseMoveHandler](#)

onMouseMove

**Methods inherited from interface** [com.google.gwt.event.dom.client.MouseOutHandler](#)

onMouseOut

**Methods inherited from interface** [nl.tue.fingerpaint.client.gui.spinners.NumberSpinnerListener](#)

[onValueChange](#)

## Fields

### DEFAULT\_VALUE

protected static final double **DEFAULT\_VALUE**

The default value of this spinner.  
Constant value: **3.0**

### DEFAULT\_RATE

protected static final double **DEFAULT\_RATE**

The rate of this spinner.  
Constant value: **1.0**

(continued from last page)

## DEFAULT\_MIN

```
protected static final double DEFAULT_MIN
```

The minimum value of this spinner.  
Constant value: **1.0**

## DEFAULT\_MAX

```
protected static final double DEFAULT_MAX
```

The maximum value of this spinner.  
Constant value: **50.0**

## as

```
protected nl.tue.fingerpaint.client.model.ApplicationState as
```

Reference to the model. Used to change the size of the drawing tool.

## Constructors

### CursorSizeSpinner

```
public CursorSizeSpinner(ApplicationState appState)
```

Creates a new numberspinner that can be used to change the size of the drawing tool.

**Parameters:**

appState - Reference to the model, used to change the drawing tool size.

## Methods

### onValueChange

```
public void onValueChange(double value,  
double roundedValue)
```

Sets the size of the drawing tool to value.

**Parameters:**

value - The actual, unrounded, value of the spinner. Not used.  
roundedValue - The desired value that should be set.

## nl.tue.fingerpaint.client.gui.spinners

### Class NrStepsSpinner

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- nl.tue.fingerpaint.client.gui.spinners.NumberSpinner
                  |
                  +- nl.tue.fingerpaint.client.gui.spinners.NrStepsSpinner
  
```

#### All Implemented Interfaces:

[NumberSpinnerListener](#), com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.event.dom.client.MouseOutHandler, com.google.gwt.event.dom.client.MouseMoveHandler, com.google.gwt.event.dom.client.MouseDownHandler, com.google.gwt.event.dom.client.KeyUpHandler, com.google.gwt.event.dom.client.ChangeHandler

```

public class NrStepsSpinner
  extends NumberSpinner
  implements com.google.gwt.event.dom.client.ChangeHandler,
  com.google.gwt.event.dom.client.KeyUpHandler, com.google.gwt.event.dom.client.MouseDownHandler,
  com.google.gwt.event.dom.client.MouseMoveHandler,
  com.google.gwt.event.dom.client.MouseOutHandler, com.google.gwt.user.client.ui.IsRenderable,
  com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers,
  com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility,
  NumberSpinnerListener
  
```

Numberspinner that can be used to change the size of the drawing tool.

Field Summary	
protected	<a href="#">as</a> Reference to the model.
public static final	<a href="#">DEFAULT_MAX</a> The maximum value of this spinner. Value: <b>50.0</b>
public static final	<a href="#">DEFAULT_MIN</a> The minimum value of this spinner. Value: <b>1.0</b>
public static final	<a href="#">DEFAULT_RATE</a> The rate of this spinner. Value: <b>1.0</b>
public static final	<a href="#">DEFAULT_VALUE</a> The default value of this spinner. Value: <b>1.0</b>

**Fields inherited from class** com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public	<a href="#">NrStepsSpinner</a> ( <a href="#">ApplicationState</a> appState) Creates a new numberspinner that can be used to change how many times the mixing protocol is executed (#steps).
--------	--

## Method Summary

void	<a href="#">onValueChange</a> (double value, double roundedValue) Sets the value for this spinner.
------	---

### Methods inherited from class [nl.tue.fingerpaint.client.gui.spinners.NumberSpinner](#)

[getRoundedValue](#), [getValue](#), [onChange](#), [onKeyUp](#), [onMouseDown](#), [onMouseMove](#), [onMouseOut](#), [setRate](#), [setSpinnerListener](#), [setValue](#), [setValue](#)

### Methods inherited from class [com.google.gwt.user.client.ui.Composite](#)

[claimElement](#), [getWidget](#), [initializeClaimedElement](#), [initWidget](#), [isAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [render](#), [render](#), [resolvePotentialElement](#), [setWidget](#)

### Methods inherited from class [com.google.gwt.user.client.ui.Widget](#)

[addAttachHandler](#), [addBitlessDomHandler](#), [addDomHandler](#), [addHandler](#), [asWidget](#), [asWidgetOrNull](#), [createHandlerManager](#), [delegateEvent](#), [doAttachChildren](#), [doDetachChildren](#), [fireEvent](#), [getHandlerCount](#), [getLayoutData](#), [getParent](#), [isAttached](#), [isOrWasAttached](#), [onAttach](#), [onBrowserEvent](#), [onDetach](#), [onLoad](#), [onUnload](#), [removeFromParent](#), [setLayoutData](#), [sinkEvents](#)

### Methods inherited from class [com.google.gwt.user.client.ui.UIObject](#)

[addStyleDependentName](#), [addStyleName](#), [ensureDebugId](#), [ensureDebugId](#), [ensureDebugId](#), [getAbsoluteLeft](#), [getAbsoluteTop](#), [getElement](#), [getOffsetHeight](#), [getOffsetWidth](#), [getStyleElement](#), [getStyleName](#), [getStyleName](#), [getStylePrimaryName](#), [getStylePrimaryName](#), [getTitle](#), [isVisible](#), [isVisible](#), [onEnsureDebugId](#), [removeStyleDependentName](#), [removeStyleName](#), [resolvePotentialElement](#), [setElement](#), [setElement](#), [setHeight](#), [setPixelSize](#), [setSize](#), [setStyleDependentName](#), [setStyleName](#), [setStyleName](#), [setStyleName](#), [setStylePrimaryName](#), [setStylePrimaryName](#), [setTitle](#), [setVisible](#), [setVisible](#), [setWidth](#), [sinkBitlessEvent](#), [sinkEvents](#), [toString](#), [unsinkEvents](#)

### Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

### Methods inherited from interface [com.google.gwt.user.client.ui.HasVisibility](#)

[isVisible](#), [setVisible](#)

### Methods inherited from interface [com.google.gwt.user.client.EventListener](#)

[onBrowserEvent](#)

**Methods inherited from interface** `com.google.gwt.event.logical.shared.HasAttachHandlers``addAttachHandler, isAttached`**Methods inherited from interface** `com.google.gwt.event.shared.HasHandlers``fireEvent`**Methods inherited from interface** `com.google.gwt.user.client.ui.IsWidget``asWidget`**Methods inherited from interface** `com.google.gwt.user.client.ui.IsRenderable``claimElement, initializeClaimedElement, render, render`**Methods inherited from interface** `com.google.gwt.event.dom.client.ChangeHandler``onChange`**Methods inherited from interface** `com.google.gwt.event.dom.client.KeyUpHandler``onKeyUp`**Methods inherited from interface** `com.google.gwt.event.dom.client.MouseDownHandler``onMouseDown`**Methods inherited from interface** `com.google.gwt.event.dom.client.MouseMoveHandler``onMouseMove`**Methods inherited from interface** `com.google.gwt.event.dom.client.MouseOutHandler``onMouseOut`**Methods inherited from interface** [nl.tue.fingerpaint.client.gui.spinners.NumberSpinnerListener](#)[onValueChange](#)

## Fields

### DEFAULT\_VALUE

```
public static final double DEFAULT_VALUE
```

The default value of this spinner.  
Constant value: **1.0**

### DEFAULT\_RATE

```
public static final double DEFAULT_RATE
```

The rate of this spinner.  
Constant value: **1.0**



---

## DEFAULT\_MIN

```
public static final double DEFAULT_MIN
```

The minimum value of this spinner.  
Constant value: **1.0**

---

## DEFAULT\_MAX

```
public static final double DEFAULT_MAX
```

The maximum value of this spinner.  
Constant value: **50.0**

---

## as

```
protected nl.tue.fingerpaint.client.model.ApplicationState as
```

Reference to the model. Used to change how many times the mixing protocol is executed

## Constructors

### NrStepsSpinner

```
public NrStepsSpinner(ApplicationState appState)
```

Creates a new numberspinner that can be used to change how many times the mixing protocol is executed (#steps).

**Parameters:**

appState - Reference to the model, used to change the #steps-parameter.

## Methods

### onValueChange

```
public void onValueChange(double value,  
double roundedValue)
```

Sets the value for this spinner.

**Parameters:**

value - The value that should be set.

## nl.tue.fingerpaint.client.gui.spinners

### Class NumberSpinner

```

java.lang.Object
  |
  +-com.google.gwt.user.client.ui.UIObject
    |
    +-com.google.gwt.user.client.ui.Widget
      |
      +-com.google.gwt.user.client.ui.Composite
        |
        +-nl.tue.fingerpaint.client.gui.spinners.NumberSpinner
  
```

#### All Implemented Interfaces:

com.google.gwt.event.dom.client.MouseOutHandler, com.google.gwt.event.dom.client.MouseMoveHandler, com.google.gwt.event.dom.client.MouseDownHandler, com.google.gwt.event.dom.client.KeyUpHandler, com.google.gwt.event.dom.client.ChangeHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.IsRenderable

#### Direct Known Subclasses:

[CursorSizeSpinner](#), [NrStepsSpinner](#), [StepSizeSpinner](#)

```

public class NumberSpinner
  extends com.google.gwt.user.client.ui.Composite
  implements com.google.gwt.user.client.ui.IsRenderable, com.google.gwt.user.client.EventListener,
  com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget,
  com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.event.dom.client.ChangeHandler,
  com.google.gwt.event.dom.client.KeyUpHandler, com.google.gwt.event.dom.client.MouseDownHandler,
  com.google.gwt.event.dom.client.MouseMoveHandler,
  com.google.gwt.event.dom.client.MouseOutHandler
  
```

NumberSpinner Custom Control Code of this class was obtained from: <http://pavanandhukuri.wordpress.com/2012/01/28/gwt-number-spinner-control/>

#### Fields inherited from class com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

### Constructor Summary

public	<a href="#">NumberSpinner</a> () Initialises a number spinner with default value 1, increase-rate 1 and without limits
public	<a href="#">NumberSpinner</a> (double defaultValue) Initialises a number spinner with default value defaultValue, increase-rate 1 and without limits
public	<a href="#">NumberSpinner</a> (double min, double max) Initialises a number spinner with default value min, increase-rate 1 and limits min and max
public	<a href="#">NumberSpinner</a> (double defaultValue, double rate, double min, double max) Initialises a number spinner with default value defaultValue, increase-rate rate and limits min and max

public	<p><a href="#">NumberSpinner</a>(double defaultValue, double rate, double min, double max, boolean limits)</p> <p>Initialises a number spinner with default value defaultValue, increase-rate rate and limits min and max if limits == true</p>
--------	---

## Method Summary

double	<p><a href="#">getRoundedValue</a>()</p> <p>Returns the value of the spinner rounded to a valid value for this spinner.</p>
double	<p><a href="#">getValue</a>()</p> <p>Returns the value being held.</p>
void	<p><a href="#">onChange</a>(com.google.gwt.event.dom.client.ChangeEvent event)</p>
void	<p><a href="#">onKeyUp</a>(com.google.gwt.event.dom.client.KeyUpEvent event)</p>
void	<p><a href="#">onMouseDown</a>(com.google.gwt.event.dom.client.MouseDownEvent event)</p>
void	<p><a href="#">onMouseMove</a>(com.google.gwt.event.dom.client.MouseMoveEvent event)</p>
void	<p><a href="#">onMouseOut</a>(com.google.gwt.event.dom.client.MouseOutEvent event)</p>
void	<p><a href="#">setRate</a>(double rate)</p> <p>Sets the rate at which increment or decrement is done.</p>
void	<p><a href="#">setSpinnerListener</a>(<a href="#">NumberSpinnerListener</a> spinnerListener)</p> <p>Change or set the listener attached to this NumberSpinner.</p>
void	<p><a href="#">setValue</a>(double d)</p> <p>Sets the value to the control</p>
void	<p><a href="#">setValue</a>(double d, boolean round)</p> <p>Sets the value to the control and possibly performs rounding of the given .</p>

### Methods inherited from class com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

### Methods inherited from class com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

### Methods inherited from class com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** com.google.gwt.event.dom.client.ChangeHandler

onChange

**Methods inherited from interface** com.google.gwt.event.dom.client.KeyUpHandler

onKeyUp

**Methods inherited from interface** com.google.gwt.event.dom.client.MouseDownHandler

onMouseDown

**Methods inherited from interface** com.google.gwt.event.dom.client.MouseMoveHandler

onMouseMove

**Methods inherited from interface** com.google.gwt.event.dom.client.MouseOutHandler

---

```
onMouseOut
```

---

## Constructors

### NumberSpinner

```
public NumberSpinner()
```

Initialises a number spinner with default value 1, increase-rate 1 and without limits

---

### NumberSpinner

```
public NumberSpinner(double defaultValue)
```

Initialises a number spinner with default value defaultValue, increase-rate 1 and without limits

**Parameters:**

defaultValue - The value that is initially displayed on this number spinner

---

### NumberSpinner

```
public NumberSpinner(double min,  
                     double max)
```

Initialises a number spinner with default value min, increase-rate 1 and limits min and max

**Parameters:**

min - The minimum value this spinner can take

max - The maximum value this spinner can take

**Throws:**

`IllegalArgumentException` - if min > max

---

### NumberSpinner

```
public NumberSpinner(double defaultValue,  
                     double rate,  
                     double min,  
                     double max)
```

Initialises a number spinner with default value defaultValue, increase-rate rate and limits min and max

**Parameters:**

defaultValue - The default value of this spinner

rate - The amount with which the value if the spinner is increased/decreased when using the up/down buttons

min - The minimum value this spinner can take

max - The maximum value this spinner can take

**Throws:**

`IllegalArgumentException` - if defaultValue < min || defaultValue > max || min > max

---

(continued from last page)

## NumberSpinner

```
public NumberSpinner(double defaultValue,  
                    double rate,  
                    double min,  
                    double max,  
                    boolean limits)
```

Initialises a number spinner with default value `defaultValue`, increase-rate `rate` and limits `min` and `max` if `limits == true`

### Parameters:

`defaultValue` - The default value of this spinner  
`rate` - The amount with which the value if the spinner is increased/decreased when using the up/down buttons  
`min` - The minimum value this spinner can take  
`max` - The maximum value this spinner can take  
`limits` - true if this `NumberSpinner` has limits, false otherwise

### Throws:

`IllegalArgumentException` - if `limits == true && ( defaultValue < min || defaultValue > max || min > max)`

## Methods

### getValue

```
public double getValue()
```

Returns the value being held.

### Returns:

`integerBox.getValue()`

### setValue

```
public void setValue(double d)
```

Sets the value to the control

### Parameters:

`d` - Value to be set

### setValue

```
public void setValue(double d,  
                    boolean round)
```

Sets the value to the control and possibly performs rounding of the given .

### Parameters:

`d` - Value to be set  
`round` - Boolean to indicate whether rounding should be performed.

### setRate

```
public void setRate(double rate)
```

Sets the rate at which increment or decrement is done.

### Parameters:

`rate` - Increase rate to be set

## setSpinnerListener

```
public void setSpinnerListener(NumberSpinnerListener spinnerListener)
```

Change or set the listener attached to this NumberSpinner.

**Parameters:**

spinnerListener - The (new) listener that will be attached to this spinner.

---

## getRoundedValue

```
public double getRoundedValue()
```

Returns the value of the spinner rounded to a valid value for this spinner.

**Returns:**

Value of this spinner, rounded to the nearest valid value.

---

## onChange

```
public void onChange(com.google.gwt.event.dom.client.ChangeEvent event)
```

---

## onKeyUp

```
public void onKeyUp(com.google.gwt.event.dom.client.KeyUpEvent event)
```

---

## onMouseDown

```
public void onMouseDown(com.google.gwt.event.dom.client.MouseDownEvent event)
```

---

## onMouseMove

```
public void onMouseMove(com.google.gwt.event.dom.client.MouseMoveEvent event)
```

---

## onMouseOut

```
public void onMouseOut(com.google.gwt.event.dom.client.MouseOutEvent event)
```

---

## nl.tue.fingerpaint.client.gui.spinners

# Interface NumberSpinnerListener

All Known Implementing Classes:

[CursorSizeSpinner](#), [NrStepsSpinner](#), [StepSizeSpinner](#)

---

```
public interface NumberSpinnerListener
extends
```

This listener can be attached to a [NumberSpinner](#). It is notified when the value of the spinner changes and can thus be used to update some internal variables or so.

---

## Method Summary

void	<a href="#">onValueChanged</a> (double value, double roundedValue) This function is called whenever the value of the <a href="#">NumberSpinner</a> is updated.
------	---

---

## Methods

### onValueChanged

```
public void onValueChanged(double value,
    double roundedValue)
```

This function is called whenever the value of the [NumberSpinner](#) is updated.

**Parameters:**

`value` - The (new) current value of the spinner. This is the value as it is typed in by the user.  
`roundedValue` - The (new) current value of the spinner, rounded to a value that is valid for it.



## nl.tue.fingerpaint.client.gui.spinners

### Class StepSizeSpinner

```

java.lang.Object
  |
  +- com.google.gwt.user.client.ui.UIObject
      |
      +- com.google.gwt.user.client.ui.Widget
          |
          +- com.google.gwt.user.client.ui.Composite
              |
              +- nl.tue.fingerpaint.client.gui.spinners.NumberSpinner
                  |
                  +- nl.tue.fingerpaint.client.gui.spinners.StepSizeSpinner
  
```

#### All Implemented Interfaces:

[NumberSpinnerListener](#), [com.google.gwt.user.client.ui.HasVisibility](#), [com.google.gwt.user.client.ui.IsWidget](#), [com.google.gwt.event.logical.shared.HasAttachHandlers](#), [com.google.gwt.user.client.EventListener](#), [com.google.gwt.user.client.ui.IsRenderable](#), [com.google.gwt.event.dom.client.MouseOutHandler](#), [com.google.gwt.event.dom.client.MouseMoveHandler](#), [com.google.gwt.event.dom.client.MouseDownHandler](#), [com.google.gwt.event.dom.client.KeyUpHandler](#), [com.google.gwt.event.dom.client.ChangeHandler](#)

```

public class StepSizeSpinner
  extends NumberSpinner
  implements com.google.gwt.event.dom.client.ChangeHandler,
             com.google.gwt.event.dom.client.KeyUpHandler, com.google.gwt.event.dom.client.MouseDownHandler,
             com.google.gwt.event.dom.client.MouseMoveHandler,
             com.google.gwt.event.dom.client.MouseOutHandler, com.google.gwt.user.client.ui.IsRenderable,
             com.google.gwt.user.client.EventListener, com.google.gwt.event.logical.shared.HasAttachHandlers,
             com.google.gwt.user.client.ui.IsWidget, com.google.gwt.user.client.ui.HasVisibility,
             NumberSpinnerListener
  
```

The [NumberSpinner](#) that is used to specify the size of a step.

Fields inherited from class <a href="#">com.google.gwt.user.client.ui.UIObject</a>	
	<a href="#">DEBUG_ID_PREFIX</a>

### Constructor Summary

public	<a href="#">StepSizeSpinner</a> ( <a href="#">ApplicationState</a> appState) Construct the <a href="#">StepSizeSpinner</a> .
public	<a href="#">StepSizeSpinner</a> ( <a href="#">ApplicationState</a> appState, java.lang.String debugId) Construct the <a href="#">StepSizeSpinner</a> .

### Method Summary

void	<a href="#">onValueChange</a> (double value, double roundedValue) Update the step size in the <a href="#">ApplicationState</a> .
------	---

Methods inherited from class <a href="#">nl.tue.fingerpaint.client.gui.spinners.NumberSpinner</a>	
	<a href="#">getRoundedValue</a> , <a href="#">getValue</a> , <a href="#">onChange</a> , <a href="#">onKeyUp</a> , <a href="#">onMouseDown</a> , <a href="#">onMouseMove</a> , <a href="#">onMouseOut</a> , <a href="#">setRate</a> , <a href="#">setSpinnerListener</a> , <a href="#">setValue</a> , <a href="#">setValue</a>

**Methods inherited from class** com.google.gwt.user.client.ui.Composite

claimElement, getWidget, initializeClaimedElement, initWidget, isAttached, onAttach, onBrowserEvent, onDetach, render, render, resolvePotentialElement, setWidget

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.IsRenderable

claimElement, initializeClaimedElement, render, render

**Methods inherited from interface** com.google.gwt.event.dom.client.ChangeHandler

onChange

**Methods inherited from interface** [com.google.gwt.event.dom.client.KeyUpHandler](#)[onKeyUp](#)**Methods inherited from interface** [com.google.gwt.event.dom.client.MouseDownHandler](#)[onMouseDown](#)**Methods inherited from interface** [com.google.gwt.event.dom.client.MouseMoveHandler](#)[onMouseMove](#)**Methods inherited from interface** [com.google.gwt.event.dom.client.MouseOutHandler](#)[onMouseOut](#)**Methods inherited from interface** [nl.tue.fingerpaint.client.gui.spinners.NumberSpinnerListener](#)[onValueChange](#)

## Constructors

### StepSizeSpinner

```
public StepSizeSpinner(ApplicationState appState)
```

Construct the [StepSizeSpinner](#).

**Parameters:**

`appState` - A reference to the model of the application. This is needed to update the step size there.

### StepSizeSpinner

```
public StepSizeSpinner(ApplicationState appState,  
                      java.lang.String debugId)
```

Construct the [StepSizeSpinner](#).

**Parameters:**

`appState` - A reference to the model of the application. This is needed to update the step size there.

`debugId` - The wanted debug ID for the element.

## Methods

### onValueChange

```
public void onValueChange(double value,  
                          double roundedValue)
```

Update the step size in the [ApplicationState](#). Also makes sure that both [StepSizeSpinners](#) in the application get the same value.

---

Package

**nl.tue.fingerpaint.client.gui.textboxes**

## nl.tue.fingerpaint.client.gui.textboxes

### Class SaveNameTextBox

```

java.lang.Object
├── com.google.gwt.user.client.ui.UIObject
│   ├── com.google.gwt.user.client.ui.Widget
│   │   ├── com.google.gwt.user.client.ui.FocusWidget
│   │   │   ├── com.google.gwt.user.client.ui.ValueBoxBase
│   │   │   │   ├── com.google.gwt.user.client.ui.TextBoxBase
│   │   │   │   │   └── com.google.gwt.user.client.ui.TextBox
│   │   │   │   │       └── nl.tue.fingerpaint.client.gui.textboxes.SaveNameTextBox

```

#### All Implemented Interfaces:

com.google.gwt.event.dom.client.KeyPressHandler, com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.user.client.ui.IsWidget, com.google.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.EventListener, com.google.gwt.user.client.ui.SourcesMouseEvents, com.google.gwt.event.dom.client.HasAllTouchHandlers, com.google.gwt.event.dom.client.HasAllMouseHandlers, com.google.gwt.event.dom.client.HasAllKeyHandlers, com.google.gwt.event.dom.client.HasAllGestureHandlers, com.google.gwt.event.dom.client.HasAllFocusHandlers, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers, com.google.gwt.user.client.ui.HasEnabled, com.google.gwt.user.client.ui.HasFocus, com.google.gwt.event.dom.client.HasDoubleClickHandlers, com.google.gwt.event.dom.client.HasClickHandlers, com.google.gwt.user.client.ui.SourcesClickEvents, com.google.gwt.editor.client.IsEditor, com.google.gwt.i18n.client.AutoDirectionHandler.Target, com.google.gwt.user.client.ui.HasValue, com.google.gwt.i18n.shared.HasDirectionEstimator, com.google.gwt.user.client.ui.HasName, com.google.gwt.event.dom.client.HasChangeHandlers, com.google.gwt.user.client.ui.SourcesChangeEvents

#### public class **SaveNameTextBox**

extends com.google.gwt.user.client.ui.TextBox

implements com.google.gwt.user.client.ui.SourcesChangeEvents,

com.google.gwt.event.dom.client.HasChangeHandlers, com.google.gwt.user.client.ui.HasName,

com.google.gwt.i18n.shared.HasDirectionEstimator, com.google.gwt.user.client.ui.HasValue,

com.google.gwt.i18n.client.AutoDirectionHandler.Target, com.google.gwt.editor.client.IsEditor,

com.google.gwt.user.client.ui.SourcesClickEvents, com.google.gwt.event.dom.client.HasClickHandlers,

com.google.gwt.event.dom.client.HasDoubleClickHandlers, com.google.gwt.user.client.ui.HasFocus,

com.google.gwt.user.client.ui.HasEnabled, com.google.gwt.event.dom.client.HasAllDragAndDropHandlers

, com.google.gwt.event.dom.client.HasAllFocusHandlers,

com.google.gwt.event.dom.client.HasAllGestureHandlers,

com.google.gwt.event.dom.client.HasAllKeyHandlers,

com.google.gwt.event.dom.client.HasAllMouseHandlers,

com.google.gwt.event.dom.client.HasAllTouchHandlers,

com.google.gwt.user.client.ui.SourcesMouseEvents, com.google.gwt.user.client.EventListener,

com.google.gwt.event.logical.shared.HasAttachHandlers, com.google.gwt.user.client.ui.IsWidget,

com.google.gwt.user.client.ui.HasVisibility, com.google.gwt.event.dom.client.KeyPressHandler

TextBox that can be used to let the user input a name for an item to save.

#### See Also:

[SaveItemPopupPanel](#)

**Fields inherited from class** com.google.gwt.user.client.ui.TextBoxBase

ALIGN\_CENTER, ALIGN\_JUSTIFY, ALIGN\_LEFT, ALIGN\_RIGHT

**Fields inherited from class** com.google.gwt.user.client.ui.UIObject

DEBUG\_ID\_PREFIX

## Constructor Summary

public

[SaveNameTextBox\(\)](#)

Construct a new com.google.gwt.user.client.ui.TextBox that can be used to input a name for an item to save.

## Method Summary

void

[onKeyPress](#)(com.google.gwt.event.dom.client.KeyPressEvent event)

Adds the key that was pressed to the textbox, but only if the key is one of A-Za-z0-9 and it is not a space at the beginning of the text.

**Methods inherited from class** com.google.gwt.user.client.ui.TextBox

getMaxLength, getVisibleLength, setMaxLength, setVisibleLength, wrap

**Methods inherited from class** com.google.gwt.user.client.ui.TextBoxBase

addChangeListener, getValue, setTextAlignment

**Methods inherited from class** com.google.gwt.user.client.ui.ValueBoxBase

addChangeHandler, addValueChangeHandler, asEditor, cancelKey, getCursorPos, getDirection, getDirectionEstimator, getImpl, getName, getSelectedText, getSelectionLength, getText, getValue, getValueOrThrow, isReadOnly, onBrowserEvent, onLoad, removeChangeListener, selectAll, setAlignment, setCursorPos, setDirection, setDirectionEstimator, setDirectionEstimator, setKey, setName, setReadOnly, setSelectionRange, setText, setValue, setValue

**Methods inherited from class** com.google.gwt.user.client.ui.FocusWidget

addBlurHandler, addClickHandler, addClickListener, addDoubleClickHandler, addDragEndHandler, addDragEnterHandler, addDragHandler, addDragLeaveHandler, addDragOverHandler, addDragStartHandler, addDropHandler, addFocusHandler, addFocusListener, addGestureChangeHandler, addGestureEndHandler, addGestureStartHandler, addKeyboardListener, addKeyDownHandler, addKeyPressHandler, addKeyUpHandler, addMouseDownHandler, addMouseListener, addMouseMoveHandler, addMouseOutHandler, addMouseOverHandler, addMouseUpHandler, addMouseWheelHandler, addMouseWheelListener, addTouchCancelHandler, addTouchEndHandler, addTouchMoveHandler, addTouchStartHandler, getFocusImpl, getTabIndex, isEnabled, onAttach, removeClickListener, removeFocusListener, removeKeyboardListener, removeMouseListener, removeMouseWheelListener, setAccessKey, setEnabled, setFocus, setTabIndex

**Methods inherited from class** com.google.gwt.user.client.ui.Widget

addAttachHandler, addBitlessDomHandler, addDomHandler, addHandler, asWidget, asWidgetOrNull, createHandlerManager, delegateEvent, doAttachChildren, doDetachChildren, fireEvent, getHandlerCount, getLayoutData, getParent, isAttached, isOrWasAttached, onAttach, onBrowserEvent, onDetach, onLoad, onUnload, removeFromParent, setLayoutData, sinkEvents

**Methods inherited from class** com.google.gwt.user.client.ui.UIObject

addStyleDependentName, addStyleName, ensureDebugId, ensureDebugId, ensureDebugId, getAbsoluteLeft, getAbsoluteTop, getElement, getOffsetHeight, getOffsetWidth, getStyleElement, getStyleName, getStyleName, getStylePrimaryName, getStylePrimaryName, getTitle, isVisible, isVisible, onEnsureDebugId, removeStyleDependentName, removeStyleName, resolvePotentialElement, setElement, setElement, setHeight, setPixelSize, setSize, setStyleDependentName, setStyleName, setStyleName, setStyleName, setStylePrimaryName, setStylePrimaryName, setTitle, setVisible, setVisible, setWidth, sinkBitlessEvent, sinkEvents, toString, unsinkEvents

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Methods inherited from interface** com.google.gwt.user.client.ui.HasVisibility

isVisible, setVisible

**Methods inherited from interface** com.google.gwt.user.client.EventListener

onBrowserEvent

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasAttachHandlers

addAttachHandler, isAttached

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.IsWidget

asWidget

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesClickEvents

addClickListener, removeClickListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasClickHandlers

addClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDoubleClickHandlers

addDoubleClickHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.Focusable

getTabIndex, setAccessKey, setFocus, setTabIndex

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesFocusEvents

addFocusListener, removeFocusListener

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesKeyboardEvents

addKeyboardListener, removeKeyboardListener

**Methods inherited from interface** com.google.gwt.user.client.ui.HasEnabled

isEnabled, setEnabled

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEndHandlers

addDragEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragEnterHandlers

addDragEnterHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragLeaveHandlers

addDragLeaveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragHandlers

addDragHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragOverHandlers

addDragOverHandler



---

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDragStartHandlers

addDragStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasDropHandlers

addDropHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasFocusHandlers

addFocusHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasBlurHandlers

addBlurHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureStartHandlers

addGestureStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureChangeHandlers

addGestureChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasGestureEndHandlers

addGestureEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasKeyUpHandlers

addKeyUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasKeyDownHandlers

addKeyDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasKeyPressHandlers

addKeyPressHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseDownHandlers

addMouseDownHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseUpHandlers

addMouseUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOutHandlers

addMouseOutHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseOverHandlers

addMouseOverHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseMoveHandlers

addMouseMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasMouseWheelHandlers

addMouseWheelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchStartHandlers

addTouchStartHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchMoveHandlers

addTouchMoveHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchEndHandlers

addTouchEndHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.event.dom.client.HasTouchCancelHandlers

addTouchCancelHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesMouseEvents

addMouseListener, removeMouseListener

**Methods inherited from interface** com.google.gwt.event.dom.client.HasChangeHandlers

addChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.HasName

getName, setName

**Methods inherited from interface** com.google.gwt.i18n.shared.HasDirectionEstimator

getDirectionEstimator, setDirectionEstimator, setDirectionEstimator

**Methods inherited from interface** com.google.gwt.user.client.ui.HasValue

getValue, setValue, setValue

**Methods inherited from interface** com.google.gwt.user.client.TakesValue

getValue, setValue

**Methods inherited from interface** com.google.gwt.event.logical.shared.HasValueChangeHandlers

addValueChangeHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.user.client.ui.HasText

getText, setText

**Methods inherited from interface** com.google.gwt.i18n.client.HasDirection

getDirection, setDirection

**Methods inherited from interface** com.google.gwt.event.dom.client.HasKeyUpHandlers

addKeyUpHandler

**Methods inherited from interface** com.google.gwt.event.shared.HasHandlers

fireEvent

**Methods inherited from interface** com.google.gwt.editor.client.IsEditor

asEditor

**Methods inherited from interface** com.google.gwt.user.client.ui.SourcesChangeEvents

addChangeListener, removeChangeListener

**Methods inherited from interface** com.google.gwt.event.dom.client.KeyPressHandler

onKeyPress

## Constructors

### SaveNameTextBox

```
public SaveNameTextBox()
```

Construct a new `com.google.gwt.user.client.ui.TextBox` that can be used to input a name for an item to save.

## Methods

### onKeyPress

```
public void onKeyPress(com.google.gwt.event.dom.client.KeyPressEvent event)
```

Adds the key that was pressed to the textbox, but only if the key is one of A-Za-z0-9 and it is not a space at the beginning of the text. If backspace is pressed, the last character removed, and if enter was pressed, the panel behaves as if the Save button was clicked. \*

**Parameters:**

event - The event that has fired.

---

Package

**nl.tue.fingerpaint.client.model**

## nl.tue.fingerpaint.client.model Class ApplicationState

java.lang.Object

└-nl.tue.fingerpaint.client.model.ApplicationState

```
public class ApplicationState
extends java.lang.Object
```

The ApplicationState is a class that can be and is used to keep track of all relevant parameters in the application. Like [GuiState](#), it is some sort of manager, or central registry, for easy tracking of in this case parameters chosen by the user. This includes the geometry and mixer that were chosen, the protocol, step size, et cetera.

### Constructor Summary

public	<a href="#">ApplicationState()</a>
--------	------------------------------------

### Method Summary

void	<a href="#">addMixingStep(MixingStep step)</a> Add a step to the mixing protocol.
void	<a href="#">drawDistribution()</a> Draws the initial concentration distribution on the canvas
<a href="#">Geometry</a>	<a href="#">getGeometry()</a> Gives the current geometry object
java.lang.String	<a href="#">getGeometryChoice()</a> Returns the long name of the chosen geometry.
int[]	<a href="#">getInitialDistribution()</a> Gives the initial concentration distribution
java.lang.String	<a href="#">getMixerChoice()</a> Returns the name of the chosen mixer.
int	<a href="#">getNrSteps()</a> Returns the current value of number of steps.
<a href="#">MixingProtocol</a>	<a href="#">getProtocol()</a> Returns the mixing protocol
double[]	<a href="#">getSegregation()</a> Returns the segregation points
double	<a href="#">getStepSize()</a> Gives the current step size
boolean	<a href="#">isDefiningProtocol()</a> Return if the user is currently defining a protocol, or not.
void	<a href="#">setGeometry(Geometry geometry)</a> Sets the current geometry object

void	<a href="#">setGeometryChoice</a> (java.lang.String g) Change the chosen geometry.
void	<a href="#">setInitialDistribution</a> (int[] distribution) Sets the initial concentration distribution
void	<a href="#">setIsDefiningProtocol</a> (boolean isDefiningProtocol) Change if the user is defining a protocol or not.
void	<a href="#">setMixerChoice</a> (java.lang.String m) Change the chosen mixer.
void	<a href="#">setNrSteps</a> (double steps) Sets the value for the number of steps.
void	<a href="#">setProtocol</a> ( <a href="#">MixingProtocol</a> mixingProtocol) Sets the current mixing protocol
void	<a href="#">setSegregation</a> (double[] segregation) Sets the segregation points
void	<a href="#">setStepSize</a> (double value) Updates the current mixing step with a new value

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### ApplicationState

```
public ApplicationState()
```

## Methods

### getNrSteps

```
public int getNrSteps()
```

Returns the current value of number of steps.

**Returns:**

The current value of number of steps.

### setNrSteps

```
public void setNrSteps(double steps)
```

Sets the value for the number of steps. It accepts a double, as the (default)value of the numberspinner is a double; it can immediately be converted to an integer, as the numberspinner for this variable guarantees that correct rounding has been performed, when this method is called.

**Parameters:**



(continued from last page)

steps - The new value for number of steps.

```
steps is valid, according to the settings for the numberspinner in class
Fingerpaint.
```

---

## getGeometryChoice

```
public java.lang.String getGeometryChoice()
```

Returns the long name of the chosen geometry.

**Returns:**

the long name of the chosen geometry

---

## setGeometryChoice

```
public void setGeometryChoice(java.lang.String g)
```

Change the chosen geometry. Note that it should be compatible with the chosen mixer!

**Parameters:**

g - The value to be set

---

## setMixerChoice

```
public void setMixerChoice(java.lang.String m)
```

Change the chosen mixer. Note that it should be compatible with the chosen geometry!

**Parameters:**

m - The value to be set

---

## getMixerChoice

```
public java.lang.String getMixerChoice()
```

Returns the name of the chosen mixer.

**Returns:**

the name of the chosen mixer

---

## getProtocol

```
public MixingProtocol getProtocol()
```

Returns the mixing protocol

**Returns:**

the current mixing protocol

---

## setProtocol

```
public void setProtocol(MixingProtocol mixingProtocol)
```

---

(continued from last page)

Sets the current mixing protocol

**Parameters:**

mixingProtocol - , the new mixing protocol

**Throws:**

NullPointerException - if mixingProtocol == null

---

## getSegregation

```
public double[] getSegregation()
```

Returns the segregation points

**Returns:**

double array containing the segregation points

---

## setSegregation

```
public void setSegregation(double[] segregation)
```

Sets the segregation points

**Parameters:**

segregation - The array containing the points to be set

---

## getStepSize

```
public double getStepSize()
```

Gives the current step size

**Returns:**

The current step size

---

## setStepSize

```
public void setStepSize(double value)
```

Updates the current mixing step with a new value

**Parameters:**

value - the new StepSize for the current mixing step

---

## getInitialDistribution

```
public int[] getInitialDistribution()
```

Gives the initial concentration distribution

**Returns:**

The current initial concentration distribution

---

## setInitialDistribution

```
public void setInitialDistribution(int[] distribution)
```

Sets the initial concentration distribution

---

(continued from last page)

**Parameters:**

distribution - The distribution to set

---

**getGeometry**public [Geometry](#) getGeometry()

Gives the current geometry object

**Returns:**

The geometry object

---

**setGeometry**public void setGeometry([Geometry](#) geometry)

Sets the current geometry object

**Parameters:**

geometry - The geometry object to set

---

**addMixingStep**public void addMixingStep([MixingStep](#) step)

Add a step to the mixing protocol.

**Parameters:**

step - Step to be added.

---

**drawDistribution**

public void drawDistribution()

Draws the initial concentration distribution on the canvas

---

**isDefiningProtocol**

public boolean isDefiningProtocol()

Return if the user is currently defining a protocol, or not. In the latter case he/she can execute single steps directly.

**Returns:**

true if the user is defining a protocol

---

**setIsDefiningProtocol**

public void setIsDefiningProtocol(boolean isDefiningProtocol)

Change if the user is defining a protocol or not.

**Parameters:**

isDefiningProtocol - true if the user is defining a protocol

# nl.tue.fingerpaint.client.model Class Geometry

java.lang.Object

└-nl.tue.fingerpaint.client.model.Geometry

Direct Known Subclasses:

[RectangleGeometry](#)

public abstract class **Geometry**  
extends java.lang.Object

Abstract class representing a geometry

## Nested Class Summary

class	<a href="#">Geometry.StepAddedListener</a> Geometry.StepAddedListener
-------	--

## Field Summary

protected static final	<a href="#">BOTTOM_OFFSET</a> Minimum distance between the bottom border of the canvas and the bottom border of the drawing area. Value: <b>29</b>
protected	<a href="#">canvas</a> The canvas to draw on.
protected	<a href="#">canvasHeight</a> Height of the drawing area in pixels.
protected	<a href="#">canvasWidth</a> Width of the drawing area in pixels.
protected	<a href="#">context</a> The context belonging to the canvas.
protected	<a href="#">currentColor</a> The current colour to draw with
protected	<a href="#">displacement</a> The extra width of the drawing tool.
protected static final	<a href="#">HEIGHT_OF_WALL</a> The height of the wall in the same distance unit as the rectangleHeight. Value: <b>25</b>
protected	<a href="#">internalCanvas</a> The canvas that holds the internal representation.
protected	<a href="#">internalContext</a> The context belonging to the internal canvas.

protected	<a href="#">stepAddedListeners</a> ArrayList of stepAddedListeners connected to this geometry
protected static	<a href="#">STRIPE_INTERVAL</a> The distance between two arrows
protected static	<a href="#">STRIPE_SLOPE</a> The total width of a single arrow
protected static	<a href="#">STRIPE_WIDTH</a> The width of the arrows on the walls
protected static final	<a href="#">SWIPE_THRESHOLD</a> Threshold in pixels to decide when a large enough swipe has been carried out to define a protocol step. Value: <b>20</b>
protected	<a href="#">swipeStartX</a> Stores the x-coordinate of the mouse event that initiates a wall movement.
protected	<a href="#">swipeStartY</a> Stores the y-coordinate of the mouse event that initiates a wall movement.
protected	<a href="#">tool</a> The current drawing tool
protected	<a href="#">toolImage</a> The image to draw with
protected static final	<a href="#">TOP_OFFSET</a> Distance between the top border of the canvas and the top border of the drawing area. Value: <b>29</b>
protected static	<a href="#">wallColor</a> The background colour of the walls
protected static	<a href="#">wallStripeColor</a> The colour of the arrows on the walls
protected static final	<a href="#">X_OFFSET</a> Distance between left border of the canvas and the left border of the drawing area. Value: <b>4</b>

## Constructor Summary

protected	<a href="#">Geometry</a> (int clientHeight, int clientWidth) Creates a new Geometry, initial colour is black.
-----------	--

## Method Summary

void	<a href="#">addStepAddedListener</a> ( <a href="#">Geometry.StepAddedListener</a> l) Adds a stepAddedListener to the list of listeners.
abstract void	<a href="#">clipGeometryOutline</a> () Clips the drawing area, so that drawing outside of the drawing area is not possible

void	<a href="#">createCanvas</a> (int height, int width, int internalHeight, int internalWidth) Initialisation method which creates the canvas.
abstract <a href="#">MixingStep</a>	<a href="#">determineSwipe</a> (int mouseX, int mouseY) Should return the direction and wall of the current swiping movement.
abstract void	<a href="#">drawDistribution</a> (int[] dist) Sets the given distribution as the current distribution, and draws it on the canvas
abstract void	<a href="#">drawGeometryOutline</a> () Draws the border around the drawing area
abstract void	<a href="#">drawWalls</a> () Draws the outline around the walls
abstract void	<a href="#">fillWall</a> (int x) Colours the inside of one of the walls of the geometry.
abstract int	<a href="#">getBaseHeight</a> () Returns the base height of the geometry
abstract int	<a href="#">getBaseWidth</a> () Returns the base width of the geometry
com.google.gwt.canvas .client.Canvas	<a href="#">getCanvas</a> () Returns the canvas belonging to this Geometry
<a href="#">Colour</a>	<a href="#">getColor</a> () Returns the current drawing colour
abstract int[]	<a href="#">getDistribution</a> () Returns the distribution
abstract int	<a href="#">getHeight</a> () Returns the total height of the drawing area
int	<a href="#">getInternalXCoord</a> (int canvasX) Convert an X-coordinate in the actual drawing area into a valid X- coordinate in the internal canvas.
int	<a href="#">getInternalYCoord</a> (int canvasY) Convert an Y-coordinate in the actual drawing area into a valid Y- coordinate in the internal canvas.
abstract java.lang.String	<a href="#">getSvgCanvasImage</a> () Returns the string representation of the .svg image of the canvas
abstract int	<a href="#">getWidth</a> () Returns the total width of the drawing area
void	<a href="#">initialise</a> (int clientWidth, int clientHeight, int internalWidth, int internalHeight) Initialise the canvas to the given size.
abstract boolean	<a href="#">isInsideDrawingArea</a> (int x, int y) Returns whether the position (x, y) is inside the drawing area on the canvas.
abstract boolean	<a href="#">isInsideWall</a> (int x, int y) Returns whether the point (x, y) is inside one of the walls.

void	<a href="#">onDragEnd</a> (int x, int y) Code to execute on a MouseUp event.
void	<a href="#">onDragMove</a> (int x, int y) Code to execute on a MouseMove event.
void	<a href="#">onDragOut</a> () Code to execute on a MouseOut event.
void	<a href="#">onDragStart</a> (int x, int y) Code to execute on a MouseDown event.
void	<a href="#">putImage</a> (com.google.gwt.dom.client.ImageElement img) Put the given image on the canvas.
void	<a href="#">removeClippingArea</a> () Clips the entire canvas
void	<a href="#">removeStepAddedListener</a> ( <a href="#">Geometry.StepAddedListener</a> l) Removes a stepAddedListner from the list of listeners.
void	<a href="#">repaint</a> () Update the contents of the canvas with those of the internal representation.
abstract void	<a href="#">resetDistribution</a> () Resets the current distribution to all white
void	<a href="#">resize</a> (int clientWidth, int clientHeight) Resizes the canvas.
void	<a href="#">setColor</a> ( <a href="#">Colour</a> colour) Sets the current drawing colour
void	<a href="#">setDrawingTool</a> ( <a href="#">DrawingTool</a> tool) Sets the drawing tool
void	<a href="#">setDrawingToolSize</a> (int size) Sets the size of the drawing tool
void	<a href="#">startDefineMixingStep</a> (int mouseX, int mouseY) Together with stopDefineMixingStep(), this function checks whether the protocol should be updated by adding a new Step.
abstract void	<a href="#">stopDefineMixingStep</a> (int mouseX, int mouseY) Together with startDefineMixingStep(), this function checks whether the protocol should be updated by adding a new Step.
abstract void	<a href="#">updateSize</a> (int clientWidth, int clientHeight) Updates the internal canvas size, which is dependent on the actual (physical) size of the canvas.

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

**Fields**

(continued from last page)

---

## canvas

```
protected com.google.gwt.canvas.client.Canvas canvas
```

The canvas to draw on.

---

## internalCanvas

```
protected com.google.gwt.canvas.client.Canvas internalCanvas
```

The canvas that holds the internal representation.

---

## context

```
protected com.google.gwt.canvas.dom.client.Context2d context
```

The context belonging to the canvas.

---

## internalContext

```
protected com.google.gwt.canvas.dom.client.Context2d internalContext
```

The context belonging to the internal canvas.

---

## canvasWidth

```
protected int canvasWidth
```

Width of the drawing area in pixels.

---

## canvasHeight

```
protected int canvasHeight
```

Height of the drawing area in pixels.

---

## HEIGHT\_OF\_WALL

```
protected static final int HEIGHT_OF_WALL
```

The height of the wall in the same distance unit as the `rectangleHeight`.  
Constant value: **25**

---

## X\_OFFSET

```
protected static final int X_OFFSET
```

Distance between left border of the canvas and the left border of the drawing area.  
Constant value: **4**

---

## TOP\_OFFSET

```
protected static final int TOP_OFFSET
```

Distance between the top border of the canvas and the top border of the drawing area.  
Constant value: **29**

---



(continued from last page)

---

## BOTTOM\_OFFSET

```
protected static final int BOTTOM_OFFSET
```

Minimum distance between the bottom border of the canvas and the bottom border of the drawing area.  
Constant value: **29**

---

## SWIPE\_THRESHOLD

```
protected static final int SWIPE_THRESHOLD
```

Threshold in pixels to decide when a large enough swipe has been carried out to define a protocol step.  
Constant value: **20**

---

## tool

```
protected nl.tue.fingerpaint.client.model.drawingtool.DrawingTool tool
```

The current drawing tool

---

## toolImage

```
protected com.google.gwt.dom.client.ImageElement toolImage
```

The image to draw with

---

## displacement

```
protected int displacement
```

The extra width of the drawing tool. Equal to  $\text{factor} * \text{tool.radius}$

---

## currentColor

```
protected nl.tue.fingerpaint.shared.utils.Colour currentColor
```

The current colour to draw with

---

## swipeStartX

```
protected int swipeStartX
```

Stores the x-coordinate of the mouse event that initiates a wall movement.

---

## swipeStartY

```
protected int swipeStartY
```

Stores the y-coordinate of the mouse event that initiates a wall movement.

---

## wallColor

```
protected static nl.tue.fingerpaint.shared.utils.Colour wallColor
```

The background colour of the walls

---

(continued from last page)

---

## wallStripeColor

```
protected static nl.tue.fingerpaint.shared.utils.Colour wallStripeColor
```

The colour of the arrows on the walls

---

## STRIPE\_WIDTH

```
protected static int STRIPE_WIDTH
```

The width of the arrows on the walls

---

## STRIPE\_INTERVAL

```
protected static int STRIPE_INTERVAL
```

The distance between two arrows

---

## STRIPE\_SLOPE

```
protected static int STRIPE_SLOPE
```

The total width of a single arrow

---

## stepAddedListeners

```
protected java.util.ArrayList stepAddedListeners
```

ArrayList of stepAddedListeners connected to this geometry

## Constructors

### Geometry

```
protected Geometry(int clientHeight,  
                  int clientWidth)
```

Creates a new Geometry, initial colour is black.

**Parameters:**

clientHeight - The height of the window in which the application is displayed  
clientWidth - The width of the window in which the application is displayed

## Methods

### initialise

```
protected void initialise(int clientWidth,  
                        int clientHeight,  
                        int internalWidth,  
                        int internalHeight)
```

Initialise the canvas to the given size.

**Parameters:**

clientWidth - Width of canvas.  
clientHeight - Height of canvas.  
internalWidth - Actual width of the canvas (internally).  
internalHeight - Actual height of the canvas (internally).

## updateSize

```
protected abstract void updateSize(int clientWidth,  
int clientHeight)
```

Updates the internal canvas size, which is dependent on the actual (physical) size of the canvas. This size is given as parameters.

**Parameters:**

`clientWidth` - The width of the canvas element.  
`clientHeight` - The height of the canvas element.

---

## repaint

```
public void repaint()
```

Update the contents of the canvas with those of the internal representation.

---

## resize

```
public void resize(int clientWidth,  
int clientHeight)
```

Resizes the canvas. Does *not* resize the internal width or height.

**Parameters:**

`clientWidth` - The width of the canvas element.  
`clientHeight` - The height of the canvas element.

---

## getCanvas

```
public com.google.gwt.canvas.client.Canvas getCanvas()
```

Returns the canvas belonging to this Geometry

**Returns:**

The canvas belonging to this Geometry

---

## setDrawingToolSize

```
public void setDrawingToolSize(int size)
```

Sets the size of the drawing tool

**Parameters:**

`size` - The size to set

---

## getColor

```
public Colour getColor()
```

Returns the current drawing colour

**Returns:**

The current colour which is used for drawing

---

(continued from last page)

---

## setColor

```
public void setColor(Colour colour)
```

Sets the current drawing colour

**Parameters:**

colour - The colour which becomes the current drawing colour

---

## getDistribution

```
public abstract int[] getDistribution()
```

Returns the distribution

**Returns:**

The distribution of this geometry

---

## getBaseHeight

```
public abstract int getBaseHeight()
```

Returns the base height of the geometry

**Returns:**

The minimum height of this geometry

---

## getBaseWidth

```
public abstract int getBaseWidth()
```

Returns the base width of the geometry

**Returns:**

The minimum width of this geometry

---

## getHeight

```
public abstract int getHeight()
```

Returns the total height of the drawing area

**Returns:**

total height of the drawing area

---

## getWidth

```
public abstract int getWidth()
```

Returns the total width of the drawing area

**Returns:**

total width of the drawing area

---

## setDrawingTool

```
public void setDrawingTool(DrawingTool tool)
```

---

(continued from last page)

Sets the drawing tool

**Parameters:**

`tool` - The tool to set as the drawing tool

---

## createCanvas

```
protected void createCanvas(int height,  
    int width,  
    int internalHeight,  
    int internalWidth)
```

Initialisation method which creates the canvas. If the browser doesn't support HTML5 canvas, adds a message stating this to the RootPanel and returns.

**Parameters:**

`height` - The height of the canvas to be created  
`width` - The width of the canvas to be created  
`internalHeight` - The internal (actual) height of the canvas to be created  
`internalWidth` - The internal (actual) width of the canvas to be created

---

## onDragStart

```
public void onDragStart(int x,  
    int y)
```

Code to execute on a MouseDown event.

**Parameters:**

`x` - The x-coordinate of the event, relative to the canvas  
`y` - The y-coordinate of the event, relative to the canvas

---

## isInsideWall

```
public abstract boolean isInsideWall(int x,  
    int y)
```

Returns whether the point (x, y) is inside one of the walls.

**Parameters:**

`x` - The x-coordinate of the event, relative to the canvas.  
`y` - The y-coordinate of the event, relative to the canvas.

**Returns:**

whether the point (x, y) is inside one of the walls.

---

## onDragEnd

```
public void onDragEnd(int x,  
    int y)
```

Code to execute on a MouseUp event.

**Parameters:**

`x` - The x-coordinate of the event, relative to the canvas  
`y` - The y-coordinate of the event, relative to the canvas

---

---

(continued from last page)

## onDragMove

```
public void onDragMove(int x,  
                       int y)
```

Code to execute on a MouseMove event.

### Parameters:

- x - The x-coordinate of the event, relative to the canvas
  - y - The y-coordinate of the event, relative to the canvas
- 

## onDragOut

```
public void onDragOut()
```

Code to execute on a MouseOut event.

---

## fillWall

```
protected abstract void fillWall(int x)
```

Colours the inside of one of the walls of the geometry.

### Parameters:

- x - The x-distance to the initial position
- 

## drawWalls

```
protected abstract void drawWalls()
```

Draws the outline around the walls

---

## drawGeometryOutline

```
protected abstract void drawGeometryOutline()
```

Draws the border around the drawing area

---

## clipGeometryOutline

```
protected abstract void clipGeometryOutline()
```

Clips the drawing area, so that drawing outside of the drawing area is not possible

---

## removeClippingArea

```
protected void removeClippingArea()
```

Clips the entire canvas

---

## isInsideDrawingArea

```
protected abstract boolean isInsideDrawingArea(int x,  
                                                int y)
```

Returns whether the position (x, y) is inside the drawing area on the canvas.

### Parameters:

- x - The x-coordinate relative to the top-left corner of the canvas
-

---

(continued from last page)

y - The y-coordinate relative to the top-left corner of the canvas

**Returns:**

true if coordinates (x, y) are inside the drawing area. false otherwise.

---

## startDefineMixingStep

```
protected void startDefineMixingStep(int mouseX,  
int mouseY)
```

Together with stopDefineMixingStep(), this function checks whether the protocol should be updated by adding a new Step. This particular function only stores the coordinates of the press event, to calculate the distance travelled when the mouse or the user's finger is lifted from the canvas.

**Parameters:**

mouseX - x-coordinate of the MouseEvent.

mouseY - y-coordinate of the MouseEvent.

---

## stopDefineMixingStep

```
protected abstract void stopDefineMixingStep(int mouseX,  
int mouseY)
```

Together with startDefineMixingStep(), this function checks whether the protocol should be updated by adding a new Step. This particular function should be implemented by geometries to detail when and how a new Step should be defined.

**Parameters:**

mouseX - x-coordinate of the MouseEvent.

mouseY - y-coordinate of the MouseEvent.

---

## determineSwipe

```
protected abstract MixingStep determineSwipe(int mouseX,  
int mouseY)
```

Should return the direction and wall of the current swiping movement. should return null if the swipe is not a valid swipe. This method should additionally draw a graphic to display that a swiping motion is in progress

**Parameters:**

mouseX - The x-coordinate of the current mouse position.

mouseY - The y-coordinate of the current mouse position.

**Returns:**

The direction and wall of the current swiping movement, or null if the swipe is not valid.

---

## getInternalXCoord

```
public int getInternalXCoord(int canvasX)
```

Convert an X-coordinate in the actual drawing area into a valid X- coordinate in the internal canvas.

**Parameters:**

canvasX - X-coordinate in the drawing area of the canvas.

**Returns:**

The given X-coordinate, translated to the internal canvas size.

---

(continued from last page)

---

## getInternalYCoord

```
public int getInternalYCoord(int canvasY)
```

Convert an Y-coordinate in the actual drawing area into a valid Y- coordinate in the internal canvas.

**Parameters:**

canvasY - Y-coordinate in the drawing area of the canvas.

**Returns:**

The given Y-coordinate, translated to the internal canvas size.

---

## drawDistribution

```
public abstract void drawDistribution(int[] dist)
```

Sets the given distribution as the current distribution, and draws it on the canvas

**Parameters:**

dist - The distribution to be set and drawn

---

## getSvgCanvasImage

```
public abstract java.lang.String getSvgCanvasImage()
```

Returns the string representation of the .svg image of the canvas

**Returns:**

The string representation of the .svg image of the canvas

---

## resetDistribution

```
public abstract void resetDistribution()
```

Resets the current distribution to all white

---

## addStepAddedListener

```
public void addStepAddedListener(Geometry.StepAddedListener l)
```

Adds a stepAddedListener to the list of listeners.

**Parameters:**

l - The listener to be added

---

## removeStepAddedListener

```
public void removeStepAddedListener(Geometry.StepAddedListener l)
```

Removes a stepAddedListener from the list of listeners.

**Parameters:**

l - The listener to be removed

---

## putImage

```
public void putImage(com.google.gwt.dom.client.ImageElement img)
```

---



(continued from last page)

Put the given image on the canvas. This image is not scaled, but put on the canvas as it is.

**Parameters:**

`img` - The image to put on the canvas.

## nl.tue.fingerpaint.client.model Interface Geometry.StepAddedListener

public interface **Geometry.StepAddedListener**  
extends

Interface for a listener for protocol steps

### Method Summary

void	<a href="#">onStepAdded</a> ( <a href="#">MixingStep</a> step) Code to execute when a mixing step is being added to the protocol
------	---

### Methods

#### **onStepAdded**

public void **onStepAdded**([MixingStep](#) step)

Code to execute when a mixing step is being added to the protocol

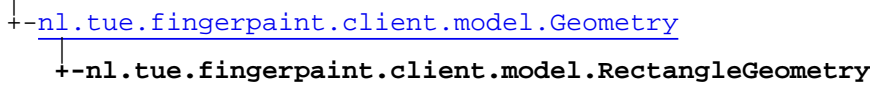
**Parameters:**

step - The mixing step that is being added.

# nl.tue.fingerpaint.client.model

## Class RectangleGeometry

java.lang.Object



public class **RectangleGeometry**  
 extends [Geometry](#)

Class that represents the rectangular geometry. Keeps the internal representation in a vector. Also contains the canvas and methods to draw on it.

### Field Summary

protected	<a href="#">topWallStep</a> true if the top wall is being moved, false otherwise
-----------	---

### Fields inherited from class [nl.tue.fingerpaint.client.model.Geometry](#)

[BOTTOM\\_OFFSET](#), [canvas](#), [canvasHeight](#), [canvasWidth](#), [context](#), [currentColor](#), [displacement](#), [HEIGHT\\_OF\\_WALL](#), [internalCanvas](#), [internalContext](#), [stepAddedListeners](#), [STRIPE\\_INTERVAL](#), [STRIPE\\_SLOPE](#), [STRIPE\\_WIDTH](#), [SWIPE\\_THRESHOLD](#), [swipeStartX](#), [swipeStartY](#), [tool](#), [toolImage](#), [TOP\\_OFFSET](#), [wallColor](#), [wallStripeColor](#), [X\\_OFFSET](#)

### Constructor Summary

public	<a href="#">RectangleGeometry</a> (int clientHeight, int clientWidth, int vertCells, int horCells) Uses constructor from super class (Geometry.java)
--------	---

### Method Summary

void	<a href="#">clipGeometryOutline</a> () Clips the drawing area, so that drawing outside of the drawing area is not possible
<a href="#">MixingStep</a>	<a href="#">determineSwipe</a> (int mouseX, int mouseY) Returns the direction and wall of the current swiping movement, returns null if the swipe is not a valid swipe.
void	<a href="#">drawDistribution</a> (int[] dist) Sets the given distribution as the current distribution, and draws it on the canvas Pre: dist.length == height * width of this rectangle
void	<a href="#">drawGeometryOutline</a> () Draws a rectangle on the canvas, starting at the upper left corner, with the total height and width of the drawing area.
void	<a href="#">drawWalls</a> () Draws the outline around the walls
void	<a href="#">fillWall</a> (int x)

void	<a href="#">fillWall</a> (int xOffset, boolean topWall) Colours the inside of one of the walls of the geometry.
int	<a href="#">getBaseHeight</a> () Returns the base height of the geometry
int	<a href="#">getBaseWidth</a> () Returns the base width of the geometry
int[]	<a href="#">getDistribution</a> () Get the current distribution from the canvas, and puts it in the distribution.
int	<a href="#">getHeight</a> ()
java.lang.String	<a href="#">getSvgCanvasImage</a> () Returns the string representation of the .svg image of the canvas
int	<a href="#">getWidth</a> ()
boolean	<a href="#">isInsideBottomWall</a> (int x, int y) Returns whether the position (x, y) is inside the bottom wall on the canvas.
boolean	<a href="#">isInsideDrawingArea</a> (int x, int y) Returns whether the position (x, y) is inside the drawing area on the canvas.
boolean	<a href="#">isInsideTopWall</a> (int x, int y) Returns whether the position (x, y) is inside the top wall on the canvas.
boolean	<a href="#">isInsideWall</a> (int x, int y)
void	<a href="#">repaint</a> ()
void	<a href="#">resetDistribution</a> () Resets the current distribution to all white.
void	<a href="#">startDefineMixingStep</a> (int mouseX, int mouseY)
void	<a href="#">stopDefineMixingStep</a> (int mouseX, int mouseY) Checks whether a new Step should be added.
void	<a href="#">updateSize</a> (int clientWidth, int clientHeight)

**Methods inherited from class [nl.tue.fingerpaint.client.model.Geometry](#)**

[addStepAddedListener](#), [clipGeometryOutline](#), [createCanvas](#), [determineSwipe](#), [drawDistribution](#), [drawGeometryOutline](#), [drawWalls](#), [fillWall](#), [getBaseHeight](#), [getBaseWidth](#), [getCanvas](#), [getColor](#), [getDistribution](#), [getHeight](#), [getInternalXCoord](#), [getInternalYCoord](#), [getSvgCanvasImage](#), [getWidth](#), [initialise](#), [isInsideDrawingArea](#), [isInsideWall](#), [onDragEnd](#), [onDragMove](#), [onDragOut](#), [onDragStart](#), [putImage](#), [removeClippingArea](#), [removeStepAddedListener](#), [repaint](#), [resetDistribution](#), [resize](#), [setColor](#), [setDrawingTool](#), [setDrawingToolSize](#), [startDefineMixingStep](#), [stopDefineMixingStep](#), [updateSize](#)

**Methods inherited from class [java.lang.Object](#)**

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

## Fields

### topWallStep

protected boolean **topWallStep**

true if the top wall is being moved, false otherwise

## Constructors

### RectangleGeometry

```
public RectangleGeometry(int clientHeight,  
                          int clientWidth,  
                          int vertCells,  
                          int horCells)
```

Uses constructor from super class (Geometry.java)

#### Parameters:

clientHeight - The height of the window in which the application is displayed

clientWidth - The width of the window in which the application is displayed

vertCells - Number of vertical cells.

horCells - Number of horizontal cells.

## Methods

### getBaseHeight

```
public int getBaseHeight()
```

Returns the base height of the geometry

#### Returns:

The minimum height of this geometry

### getBaseWidth

```
public int getBaseWidth()
```

Returns the base width of the geometry

#### Returns:

The minimum width of this geometry

### getHeight

```
public int getHeight()
```

Returns the total height of the drawing area

(continued from last page)

---

## getWidth

```
public int getWidth()
```

Returns the total width of the drawing area

---

## getDistribution

```
public int[] getDistribution()
```

Get the current distribution from the canvas, and puts it in the distribution.

**Returns:**

The current concentration distribution

---

## repaint

```
public void repaint()
```

Update the contents of the canvas with those of the internal representation.

---

## updateSize

```
protected void updateSize(int clientWidth,  
                           int clientHeight)
```

Updates the internal canvas size, which is dependent on the actual (physical) size of the canvas. This size is given as parameters.

---

## isInsideDrawingArea

```
public boolean isInsideDrawingArea(int x,  
                                   int y)
```

Returns whether the position (x, y) is inside the drawing area on the canvas. Note: The border around the drawing area counts as 'outside'.

**Returns:**

True if coordinates (x, y) are inside the rectangular shaped drawing area. False otherwise.

---

## isInsideWall

```
public boolean isInsideWall(int x,  
                            int y)
```

Returns whether the point (x, y) is inside one of the walls.

---

## isInsideTopWall

```
protected boolean isInsideTopWall(int x,  
                                   int y)
```

Returns whether the position (x, y) is inside the top wall on the canvas.

**Parameters:**

- x - The x-coordinate relative to the top-left corner of the canvas
- y - The y-coordinate relative to the top-left corner of the canvas

**Returns:**

(continued from last page)

true if coordinates (x, y) are inside the top wall. false otherwise.

---

## isInsideBottomWall

```
protected boolean isInsideBottomWall(int x,  
                                       int y)
```

Returns whether the position (x, y) is inside the bottom wall on the canvas.

### Parameters:

x - The x-coordinate relative to the top-left corner of the canvas

y - The y-coordinate relative to the top-left corner of the canvas

### Returns:

true if coordinates (x, y) are inside the bottom wall. false otherwise.

---

## drawWalls

```
protected void drawWalls()
```

Draws the outline around the walls

---

## fillWall

```
protected void fillWall(int x)
```

Colours the inside of one of the walls of the geometry.

---

## fillWall

```
protected void fillWall(int xOffset,  
                        boolean topWall)
```

Colours the inside of one of the walls of the geometry.

### Parameters:

xOffset - The x-distance to the initial position

topWall - true if the top wall has to be filled, false otherwise

---

## drawGeometryOutline

```
protected void drawGeometryOutline()
```

Draws a rectangle on the canvas, starting at the upper left corner, with the total height and width of the drawing area. Note: The 0.5 and 1.5 coordinates are necessary to get solid black lines. If you just use 0 and 1, the lines appear gray instead of black, and the right and bottom lines are two pixels wide instead of 1.

---

## clipGeometryOutline

```
protected void clipGeometryOutline()
```

Clips the drawing area, so that drawing outside of the drawing area is not possible

---

## startDefineMixingStep

```
protected void startDefineMixingStep(int mouseX,  
                                       int mouseY)
```

---

(continued from last page)

Together with `stopDefineMixingStep()`, this function checks whether the protocol should be updated by adding a new Step. This particular function only stores the coordinates of the press event, to calculate the distance travelled when the mouse or the user's finger is lifted from the canvas.

---

## stopDefineMixingStep

```
protected void stopDefineMixingStep(int mouseX,  
                                     int mouseY)
```

Checks whether a new Step should be added. If the MouseEvent's coordinates are near the top of the rectangular geometry, a TOP mixing step is generated; if it is near the bottom, a BOTTOM is generated. The direction of movement decides whether the movement is to the left or to the right.

---

## determineSwipe

```
protected MixingStep determineSwipe(int mouseX,  
                                     int mouseY)
```

Returns the direction and wall of the current swiping movement, returns null if the swipe is not a valid swipe. Additionally draws an arrow to indicate the direction of the current swipe

**Parameters:**

mouseX - The x-coordinate of the current mouse position.  
mouseY - The y-coordinate of the current mouse position.

---

## drawDistribution

```
public void drawDistribution(int[] dist)
```

Sets the given distribution as the current distribution, and draws it on the canvas

Pre: `dist.length == height * width` of this rectangle

**Parameters:**

dist - The distribution to be set and drawn

---

## getSvgCanvasImage

```
public java.lang.String getSvgCanvasImage()
```

Returns the string representation of the .svg image of the canvas

**Returns:**

The string representation of the .svg image of the canvas

---

## resetDistribution

```
public void resetDistribution()
```

Resets the current distribution to all white. Equivalent to calling `drawDistribution` with a `dist` parameter containing '255' at all indices (but faster)



---

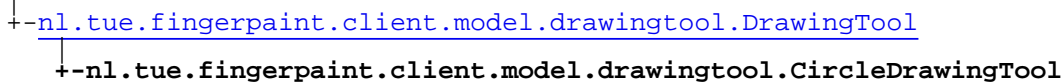
Package

**nl.tue.fingerpaint.client.model.drawingto  
ol**

## nl.tue.fingerpaint.client.model.drawingtool

### Class CircleDrawingTool

java.lang.Object



public class **CircleDrawingTool**  
 extends [DrawingTool](#)

A CircleDrawingTool is a [DrawingTool](#) with a circular shape. Users can thus use this drawing tool to draw circles on the canvas.

**Fields inherited from class** [nl.tue.fingerpaint.client.model.drawingtool.DrawingTool](#)

[radius](#)

### Constructor Summary

public	<a href="#">CircleDrawingTool</a> (int r) Constructs a circle drawing tool with radius r
--------	---

### Method Summary

com.google.gwt.canvas.dom.client.ImageData	<a href="#">getTool</a> (com.google.gwt.canvas.dom.client.ImageData img, <a href="#">Colour</a> colour) Returns an ImageData object representing the circle drawing tool.
--	--

**Methods inherited from class** [nl.tue.fingerpaint.client.model.drawingtool.DrawingTool](#)

[fillPixel](#), [getRadius](#), [getTool](#), [setRadius](#)

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### CircleDrawingTool

public **CircleDrawingTool**(int r)

Constructs a circle drawing tool with radius r

**Parameters:**

r - The radius of the drawing tool

## Methods

(continued from last page)

## getTool

```
public com.google.gwt.canvas.dom.client.ImageData  
getTool(com.google.gwt.canvas.dom.client.ImageData img,  
        Colour colour)
```

Returns an ImageData object representing the circle drawing tool.

### Parameters:

img - The ImageData object to draw the drawing tool on  
colour - The colour to create the drawing tool with

# nl.tue.fingerpaint.client.model.drawingtool

## Class DrawingTool

java.lang.Object

↳ nl.tue.fingerpaint.client.model.drawingtool.DrawingTool

Direct Known Subclasses:

[CircleDrawingTool](#), [SquareDrawingTool](#)

public abstract class **DrawingTool**  
extends java.lang.Object

A DrawingTool is a shape that a user can use to draw on the canvas. When clicking on the canvas, the shape represented by a DrawingTool is put on the canvas where the user clicked. In the same manner, shapes are put on the canvas while the user drags the mouse or finger over the canvas.

### Field Summary

protected	<a href="#">radius</a> The radius of the drawing tool.
-----------	---

### Constructor Summary

public	<a href="#">DrawingTool</a> (int radius) Constructs a drawing tool with radius r.
--------	--

### Method Summary

void	<a href="#">fillPixel</a> (com.google.gwt.canvas.dom.client.CanvasPixelArray data, int index, int col, int alpha) Fills all the indices corresponding to a pixel in the canvaspixelarray.
int	<a href="#">getRadius</a> () Gives the radius of this drawing tool.
abstract com.google.gwt.canvas.dom.client.ImageData	<a href="#">getTool</a> (com.google.gwt.canvas.dom.client.ImageData img, <a href="#">Colour</a> colour) Returns an ImageData object representing the drawing tool
void	<a href="#">setRadius</a> (int r) Change the radius of this drawing tool.

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Fields

#### radius

protected int **radius**

(continued from last page)

The radius of the drawing tool.

## Constructors

### DrawingTool

```
public DrawingTool(int radius)
```

Constructs a drawing tool with radius r.

**Parameters:**

radius - The radius of the drawing tool

## Methods

### getRadius

```
public int getRadius()
```

Gives the radius of this drawing tool.

**Returns:**

The radius of the drawing tool

---

### setRadius

```
public void setRadius(int r)
```

Change the radius of this drawing tool.

**Parameters:**

r - The new radius of the drawing tool

---

### fillPixel

```
protected void fillPixel(com.google.gwt.canvas.dom.client.CanvasPixelArray data,  
    int index,  
    int col,  
    int alpha)
```

Fills all the indices corresponding to a pixel in the canvaspixelarray. This is a convenience method to write grey values to the canvas. Normally, you have to write the RGB values separately to the array, but for grey values  $R == G == B$  of course. This method handles that.

**Parameters:**

data - The array to put the values in  
index - The first index to change in the array  
col - The colour code to put in the array  
alpha - The alpha value to put in the array

---

### getTool

```
public abstract com.google.gwt.canvas.dom.client.ImageData  
getTool(com.google.gwt.canvas.dom.client.ImageData img,  
    Colour colour)
```

Returns an ImageData object representing the drawing tool

**Parameters:**

(continued from last page)

`img` - The ImageData object to draw the drawing tool on

`colour` - The colour to create the drawing tool with

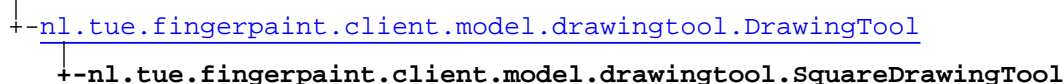
**Returns:**

An ImageData object representing this drawing tool, with colour colour

## nl.tue.fingerpaint.client.model.drawingtool

### Class SquareDrawingTool

java.lang.Object



public class **SquareDrawingTool**  
 extends [DrawingTool](#)

A SquareDrawingTool is a [DrawingTool](#) with a square shape. Users can thus use this drawing tool to draw squares on the canvas.

**Fields inherited from class** [nl.tue.fingerpaint.client.model.drawingtool.DrawingTool](#)

[radius](#)

### Constructor Summary

public	<a href="#">SquareDrawingTool</a> (int r) Constructs a square drawing tool with a size of r.
--------	---

### Method Summary

com.google.gwt.canvas.dom.client.ImageData	<a href="#">getTool</a> (com.google.gwt.canvas.dom.client.ImageData img, <a href="#">Colour</a> colour) Returns an ImageData object representing the square drawing tool
--	---

**Methods inherited from class** [nl.tue.fingerpaint.client.model.drawingtool.DrawingTool](#)

[fillPixel](#), [getRadius](#), [getTool](#), [setRadius](#)

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### SquareDrawingTool

public **SquareDrawingTool**(int r)

Constructs a square drawing tool with a size of r.

**Parameters:**

r - The height (and width) of the drawing tool.

## Methods

(continued from last page)

## getTool

```
public com.google.gwt.canvas.dom.client.ImageData  
getTool(com.google.gwt.canvas.dom.client.ImageData img,  
         Colour colour)
```

Returns an ImageData object representing the square drawing tool

### Parameters:

img - The ImageData object to draw the drawing tool on  
colour - The colour to create the drawing tool with



---

Package

**nl.tue.fingerpaint.client.resources**

## nl.tue.fingerpaint.client.resources Interface FingerpaintCellBrowserResources

public interface **FingerpaintCellBrowserResources**  
extends `com.google.gwt.user.cellview.client.CellBrowser.Resources`

The `FingerpaintCellBrowserResources` can be used when constructing `CellBrowsers` to obtain the custom Fingerpaint style.

### Method Summary

<code>com.google.gwt.user.cellview.client.CellBrowser.Style</code>	<a href="#">cellBrowserStyle()</a>
--	------------------------------------

**Methods inherited from interface** `com.google.gwt.user.cellview.client.CellBrowser.Resources`

`cellBrowserClosed`, `cellBrowserOpen`, `cellBrowserOpenBackground`,  
`cellBrowserSelectedBackground`, `cellBrowserStyle`

### Methods

#### **cellBrowserStyle**

public `com.google.gwt.user.cellview.client.CellBrowser.Style` **cellBrowserStyle()**

**Returns:**

Resource that provides the custom Fingerpaint styling for `CellBrowsers`.

## nl.tue.fingerpaint.client.resources Interface FingerpaintCellListResources

public interface **FingerpaintCellListResources**  
extends com.google.gwt.user.cellview.client.CellList.Resources

The FingerpaintCellListResources can be used when constructing `CellLists` to obtain the custom Fingerpaint style.

### Method Summary

com.google.gwt.user.cellview.client.CellList.Style	<a href="#">cellListStyle()</a>
--	---------------------------------

**Methods inherited from interface** com.google.gwt.user.cellview.client.CellList.Resources

cellListSelectedBackground, cellListStyle

### Methods

#### cellListStyle

public com.google.gwt.user.cellview.client.CellList.Style **cellListStyle()**

**Returns:**

Resource that provides the custom Fingerpaint styling for `CellLists`.

## nl.tue.fingerpaint.client.resources Interface FingerpaintConstants

public interface **FingerpaintConstants**  
extends com.google.gwt.i18n.client.Constants

The FingerpaintConstants are a set of localised constants. They can be used in the GUI for I18N for example.

### Field Summary

<code>public static final</code>	<a href="#">INSTANCE</a> An instance that can be used to obtain constants.
----------------------------------	---

### Method Summary

<code>java.lang.String</code>	<a href="#">btnBack()</a>
<code>java.lang.String</code>	<a href="#">btnCancel()</a>
<code>java.lang.String</code>	<a href="#">btnClose()</a>
<code>java.lang.String</code>	<a href="#">btnCompare()</a>
<code>java.lang.String</code>	<a href="#">btnComparePerfomance()</a>
<code>java.lang.String</code>	<a href="#">btnDefProt()</a>
<code>java.lang.String</code>	<a href="#">btnDists()</a>
<code>java.lang.String</code>	<a href="#">btnExportDist()</a>
<code>java.lang.String</code>	<a href="#">btnExportGraph()</a>
<code>java.lang.String</code>	<a href="#">btnExportGraphs()</a>
<code>java.lang.String</code>	<a href="#">btnLoadDist()</a>
<code>java.lang.String</code>	<a href="#">btnLoadProt()</a>
<code>java.lang.String</code>	<a href="#">btnLoadResults()</a>
<code>java.lang.String</code>	<a href="#">btnMixNow()</a>
<code>java.lang.String</code>	<a href="#">btnNewCompare()</a>
<code>java.lang.String</code>	<a href="#">btnOverwrite()</a>

java.lang.String	<a href="#">btnProtocols()</a>
java.lang.String	<a href="#">btnRemoveInitDistButton()</a>
java.lang.String	<a href="#">btnRemoveResults()</a>
java.lang.String	<a href="#">btnRemoveSavedProtButton()</a>
java.lang.String	<a href="#">btnResetDist()</a>
java.lang.String	<a href="#">btnResetProt()</a>
java.lang.String	<a href="#">btnResults()</a>
java.lang.String	<a href="#">btnSave()</a>
java.lang.String	<a href="#">btnSaveDist()</a>
java.lang.String	<a href="#">btnSaveProt()</a>
java.lang.String	<a href="#">btnSaveResults()</a>
java.lang.String	<a href="#">btnSelectTool()</a>
java.lang.String	<a href="#">btnStopDefProt()</a>
java.lang.String	<a href="#">btnViewSingleGraph()</a>
java.lang.String	<a href="#">capacityExceeded()</a>
java.lang.String	<a href="#">classMenuTitleLabel()</a>
java.lang.String	<a href="#">deleteSuccess()</a>
java.lang.String	<a href="#">errorOccured()</a>
java.lang.String	<a href="#">flexFileName()</a>
java.lang.String	<a href="#">flexRemove()</a>
java.lang.String	<a href="#">geometryUnsupported()</a>
java.lang.String	<a href="#">lblDistributions()</a>
java.lang.String	<a href="#">lblLoad()</a>
java.lang.String	<a href="#">lblNrSteps()</a>

java.lang.String	<a href="#">lblProtocol()</a>
java.lang.String	<a href="#">lblProtocols()</a>
java.lang.String	<a href="#">lblRemoving()</a>
java.lang.String	<a href="#">lblResults()</a>
java.lang.String	<a href="#">lblSaving()</a>
java.lang.String	<a href="#">lblStepSize()</a>
java.lang.String	<a href="#">lblTool()</a>
java.lang.String	<a href="#">loadingGeometries()</a>
java.lang.String	<a href="#">loadingGraphFailed()</a>
java.lang.String	<a href="#">nameInUse()</a>
java.lang.String	<a href="#">nameInUseError()</a>
java.lang.String	<a href="#">noFilesFound()</a>
java.lang.String	<a href="#">nonexistantKeyError()</a>
java.lang.String	<a href="#">notInitialisedError()</a>
java.lang.String	<a href="#">notReachServer()</a>
java.lang.String	<a href="#">prepareData()</a>
java.lang.String	<a href="#">quotaExceededError()</a>
java.lang.String	<a href="#">runSimulation()</a>
java.lang.String	<a href="#">saveSuccess()</a>
java.lang.String	<a href="#">simulationRequestTimeout()</a>
java.lang.String	<a href="#">unknownError()</a>

## Fields

### INSTANCE

```
public static final nl.tue.fingerpaint.client.resources.FingerpaintConstants INSTANCE
```

---

(continued from last page)

An instance that can be used to obtain constants.

## Methods

### **classMenuTitleLabel**

```
public java.lang.String classMenuTitleLabel()
```

**Returns:**

Localised string that is used in the title of the protocol submenu.

---

### **loadingGeometries**

```
public java.lang.String loadingGeometries()
```

**Returns:**

Localised string that indicates that the application is loading geometries and mixers from the server.

---

### **prepareData**

```
public java.lang.String prepareData()
```

**Returns:**

Localised string that indicates that the application is preparing the data to be send to the server.

---

### **runSimulation**

```
public java.lang.String runSimulation()
```

**Returns:**

Localised string that indicates that the application is busy running the simulation.

---

### **flexFileName**

```
public java.lang.String flexFileName()
```

**Returns:**

Localised string that contains the text for the first row of the flextable [GuiState.resultsFlexTable](#).

---

### **flexRemove**

```
public java.lang.String flexRemove()
```

**Returns:**

Localised string that contains the text for the second row of the flextable [GuiState.resultsFlexTable](#).

---

## lblLoad

```
public java.lang.String lblLoad()
```

**Returns:**

Localised string that contains the text for the [GuiState.loadLabel](#) label.

---

## lblSaving

```
public java.lang.String lblSaving()
```

**Returns:**

Localised string that contains the text for the [GuiState.loadLabel](#) label when it is used to indicate that a save action is running.

---

## lblRemoving

```
public java.lang.String lblRemoving()
```

**Returns:**

Localised string that contains the text for the [GuiState.loadLabel](#) label when it is used to indicate that a remove action is running.

---

## lblNrSteps

```
public java.lang.String lblNrSteps()
```

**Returns:**

Localised string that contains the text for the [GuiState.nrStepsLabel](#) label.

---

## lblTool

```
public java.lang.String lblTool()
```

**Returns:**

Localised string that contains the text for the [GuiState.drawingToolLabel](#) label.

---

## lblDistributions

```
public java.lang.String lblDistributions()
```

**Returns:**

Localised string that contains the text for the [GuiState.distributionsLabel](#) label.

---



---

(continued from last page)

## lblResults

```
public java.lang.String lblResults()
```

### Returns:

Localised string that contains the text for the [GuiState.resultsLabel](#) label.

---

## lblProtocols

```
public java.lang.String lblProtocols()
```

### Returns:

Localised string that contains the text for the [GuiState.resultsLabel](#) label.

---

## lblProtocol

```
public java.lang.String lblProtocol()
```

### Returns:

Localised string that contains the text for the [GuiState.labelProtocolLabel](#) label.

---

## lblStepSize

```
public java.lang.String lblStepSize()
```

### Returns:

Localised string that contains the text for the [GuiState.sizeLabel](#) and [GuiState.sizeProtocolMenuLabel](#) labels.

---

## noFilesFound

```
public java.lang.String noFilesFound()
```

### Returns:

Localised string that contains the text for the [GuiState.noFilesFoundLabel](#) label

---

## saveSuccess

```
public java.lang.String saveSuccess()
```

### Returns:

Localised string that describes that an item has been saved successfully.

---

## nameInUse

```
public java.lang.String nameInUse()
```

---

---

(continued from last page)

**Returns:**

Localised string that describes that an item could not be saved (because the name was already in use).

---

**nameInUseError**

```
public java.lang.String nameInUseError()
```

**Returns:**

Localised string that is used in an error notification that is shown when a save did not succeed due to the chosen name being in use already.

---

**deleteSuccess**

```
public java.lang.String deleteSuccess()
```

**Returns:**

Localised string that describes that an item has been saved successfully.

---

**btnBack**

```
public java.lang.String btnBack()
```

**Returns:**

Localised string that contains the text for [GuiState.backMenu1Button](#) and [GuiState.backMenu2Button](#).

---

**btnSave**

```
public java.lang.String btnSave()
```

**Returns:**

Localised string that contains the text for a save button.

---

**btnCancel**

```
public java.lang.String btnCancel()
```

**Returns:**

Localised string that contains the text for a cancel button.

---

**btnClose**

```
public java.lang.String btnClose()
```

**Returns:**

Localised string that contains the text for a close button.

---

## btnOverwrite

```
public java.lang.String btnOverwrite()
```

**Returns:**

Localised string that contains the text for an overwrite button.

---

## btnSelectTool

```
public java.lang.String btnSelectTool()
```

**Returns:**

Localised string that contains the text for the [GuiState.toolSelectButton](#) button.

---

## btnDists

```
public java.lang.String btnDists()
```

**Returns:**

Localised string that contains the text for the [GuiState.distributionsButton](#) button.

---

## btnSaveDist

```
public java.lang.String btnSaveDist()
```

**Returns:**

Localised string that contains the text for the [GuiState.saveDistributionButton](#) button.

---

## btnLoadDist

```
public java.lang.String btnLoadDist()
```

**Returns:**

Localised string that contains the text for the [GuiState.loadInitDistButton](#) button.

---

## btnRemoveInitDistButton

```
public java.lang.String btnRemoveInitDistButton()
```

**Returns:**

Localised string that contains the text for the [GuiState.removeInitDistButton](#) button.

---

## btnResetDist

```
public java.lang.String btnResetDist()
```

---

---

(continued from last page)

**Returns:**

Localised string that contains the text for the [GuiState.loadInitDistButton](#) button.

---

**btnResults**

```
public java.lang.String btnResults()
```

**Returns:**

Localised string that contains the text for the [GuiState.resultsButton](#) button.

---

**btnSaveResults**

```
public java.lang.String btnSaveResults()
```

**Returns:**

Localised string that contains the text for the [GuiState.saveResultsButton](#) button.

---

**btnLoadResults**

```
public java.lang.String btnLoadResults()
```

**Returns:**

Localised string that contains the text for the [GuiState.loadResultsButton](#) button.

---

**btnRemoveResults**

```
public java.lang.String btnRemoveResults()
```

**Returns:**

Localised string that contains the text for the [GuiState.removeSavedResultsButton](#) button.

---

**btnProtocols**

```
public java.lang.String btnProtocols()
```

**Returns:**

Localised string that contains the text for the [GuiState.protocolsButton](#) button.

---

**btnSaveProt**

```
public java.lang.String btnSaveProt()
```

**Returns:**

Localised string that contains the text for the [GuiState.saveProtocolButton](#) button.

---

## **btnLoadProt**

```
public java.lang.String btnLoadProt()
```

**Returns:**

Localised string that contains the text for the [GuiState.loadProtocolButton](#) button.

---

## **btnRemoveSavedProtButton**

```
public java.lang.String btnRemoveSavedProtButton()
```

**Returns:**

Localised string that contains the text for the [GuiState.removeSavedProtButton](#) button.

---

## **btnResetProt**

```
public java.lang.String btnResetProt()
```

**Returns:**

Localised string that contains the text for the [GuiState.resetProtocolButton](#) button.

---

## **btnMixNow**

```
public java.lang.String btnMixNow()
```

**Returns:**

Localised string that contains the text for the [GuiState.mixNowButton](#) button.

---

## **btnViewSingleGraph**

```
public java.lang.String btnViewSingleGraph()
```

**Returns:**

Localised string that contains the text for the [GuiState.viewSingleGraphButton](#) button.

---

## **btnExportGraph**

```
public java.lang.String btnExportGraph()
```

**Returns:**

Localised string that contains the text for the [GuiState.exportSingleGraphButton](#) button.

---

## **btnExportDist**

```
public java.lang.String btnExportDist()
```

---

---

(continued from last page)

**Returns:**

Localised string that contains the text for the [GuiState.exportDistributionButton](#) button.

---

**btnExportGraphs**

```
public java.lang.String btnExportGraphs()
```

**Returns:**

Localised string that contains the text for the [GuiState.exportSingleGraphButton](#) button.

---

**btnComparePerfomance**

```
public java.lang.String btnComparePerfomance()
```

**Returns:**

Localised string that contains the text for the [GuiState.comparePerformanceButton](#) button.

---

**btnCompare**

```
public java.lang.String btnCompare()
```

**Returns:**

Localised string that contains the text for the [GuiState.compareButton](#) button.

---

**btnNewCompare**

```
public java.lang.String btnNewCompare()
```

**Returns:**

Localised string that contains the text for the [GuiState.newCompareButton](#) button.

---

**btnDefProt**

```
public java.lang.String btnDefProt()
```

**Returns:**

Localised string that contains the text for the [GuiState.toggleDefineProtocol](#) button.

---

**btnStopDefProt**

```
public java.lang.String btnStopDefProt()
```

**Returns:**

Localised string that contains the text for the [GuiState.backStopDefiningProtocol](#) button.

---

## **simulationRequestTimeout**

```
public java.lang.String simulationRequestTimeout()
```

**Returns:**

Localised string to indicate that a request timeout occurred on the simulation server.

---

## **notReachServer**

```
public java.lang.String notReachServer()
```

**Returns:**

Localised string to indicate that the server could not be reached.

---

## **errorOccured**

```
public java.lang.String errorOccured()
```

**Returns:**

Localised string to indicate that an error has occurred.

---

## **loadingGraphFailed**

```
public java.lang.String loadingGraphFailed()
```

**Returns:**

Localised string to indicate that the mixing performance graph could not be loaded.

---

## **capacityExceeded**

```
public java.lang.String capacityExceeded()
```

**Returns:**

Localised string to indicate that saving an item was not successful because the local storage is full.

---

## **geometryUnsupported**

```
public java.lang.String geometryUnsupported()
```

**Returns:**

Localised string to indicate that the chosen geometry is unsupported for mixing.

---

## **nonexistantKeyError**

```
public java.lang.String nonexistantKeyError()
```

---

---

(continued from last page)

**Returns:**

Localised string for the error message that is shown when a key does not exist in local storage.

---

**notInitialisedError**

```
public java.lang.String notInitialisedError()
```

**Returns:**

Localised string for the error message that is shown when the local storage is not initialised.

---

**quotaExceededError**

```
public java.lang.String quotaExceededError()
```

**Returns:**

Localised string for the error message that is shown when the local storage is full.

---

**unknownError**

```
public java.lang.String unknownError()
```

**Returns:**

Localised string for the error message that is shown when an unknown error occurs.



## nl.tue.fingerpaint.client.resources Interface FingerpaintResources

public interface **FingerpaintResources**  
extends `com.google.gwt.resources.client.ClientBundle`

The `FingerpaintResources` are a `com.google.gwt.resources.client.ClientBundle` with all resources used in the Fingerpaint application.

### Field Summary

<code>public static final</code>	<a href="#"><u>INSTANCE</u></a> An instance that can be used to obtain resources.
----------------------------------	--

### Method Summary

<code>com.google.gwt.resources.client.CssResource</code>	<a href="#"><u>css()</u></a>
<code>com.google.gwt.resources.client.ImageResource</code>	<a href="#"><u>loadImageDynamic()</u></a>
<code>com.google.gwt.resources.client.ImageResource</code>	<a href="#"><u>plusImage()</u></a>
<code>com.google.gwt.resources.client.ImageResource</code>	<a href="#"><u>startupImage()</u></a>

### Fields

#### INSTANCE

`public static final nl.tue.fingerpaint.client.resources.FingerpaintResources` **INSTANCE**

An instance that can be used to obtain resources.

### Methods

#### css

`public com.google.gwt.resources.client.CssResource` **css()**

#### Returns:

The main CSS resource of the Fingerpaint application.

#### loadImageDynamic

`public com.google.gwt.resources.client.ImageResource` **loadImageDynamic()**

(continued from last page)

**Returns:**

An endless animation that can be used to indicate that the application is busy doing something.

---

**plusImage**

```
public com.google.gwt.resources.client.ImageResource plusImage()
```

**Returns:**

An image of a plus sign. Used in the button that can toggle if the menu is visible or not.

---

**startupImage**

```
public com.google.gwt.resources.client.ImageResource startupImage()
```

**Returns:**

An image that can be put on the canvas when the application loads. It provides instructions on how to use the application.

---

Package

**nl.tue.fingerpaint.client.serverdata**

## nl.tue.fingerpaint.client.serverdata Class ServerDataCache

java.lang.Object

└-nl.tue.fingerpaint.client.serverdata.ServerDataCache

```
public class ServerDataCache
extends java.lang.Object
```

A ServerDataCache can obtain data from the server, namely the geometries and mixers that are available. This data will be retrieved only the first time, after that, data is served from a cache that is managed by this class. This class contains only static methods, because retrieving data should go to one central point, which makes instances unnecessary.

### Field Summary

protected static	<a href="#">cache</a> Data in cache.
protected static	<a href="#">cacheState</a> State of this cache.
protected static final	<a href="#">INITIALISED</a> State indicating that the cache has been initialised with data from the server and can be queried now. Value: <b>2</b>
protected static final	<a href="#">LOADING</a> State indicating that the cache is now initialising, that is, retrieving data from the server. Value: <b>1</b>
protected static final	<a href="#">NOT_INITIALISED</a> State indicating that the cache is not initialised. Value: <b>0</b>

### Method Summary

static java.lang.String[]	<a href="#">getGeometries()</a> Return a list of the available geometries, or null if this cache has not been initialised yet.
static java.lang.String[]	<a href="#">getMixers()</a> Return a list of the available mixers, or null if this cache has not been initialised yet.
static java.lang.String[]	<a href="#">getMixersForGeometry(java.lang.String geometry)</a> Return a list of all matrices that belong to the given geometry.
static void	<a href="#">initialise(com.google.gwt.user.client.rpc.AsyncCallback onInitialised)</a> Initialise the cache.
static boolean	<a href="#">isLoading()</a> Return if data has been loaded from the server already.

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

## Fields

### NOT\_INITIALISED

```
protected static final int NOT_INITIALISED
```

State indicating that the cache is not initialised.  
Constant value: 0

### LOADING

```
protected static final int LOADING
```

State indicating that the cache is now initialising, that is, retrieving data from the server.  
Constant value: 1

### INITIALISED

```
protected static final int INITIALISED
```

State indicating that the cache has been initialised with data from the server and can be queried now.  
Constant value: 2

### cache

```
protected static nl.tue.fingerpaint.shared.ServerDataResult cache
```

Data in cache.

### cacheState

```
protected static int cacheState
```

State of this cache. Can be:

- [NOT\\_INITIALISED](#)
- [LOADING](#)
- [INITIALISED](#)

## Methods

### getGeometries

```
public static java.lang.String[] getGeometries()
```

Return a list of the available geometries, or null if this cache has not been initialised yet.

**Returns:**

a list of available geometries (by name), or null if this cache has not been initialised yet

## getMixers

```
public static java.lang.String[] getMixers()
```

Return a list of the available mixers, or null if this cache has not been initialised yet.

**Returns:**

a list of available mixers (by name), or null if this cache has not been initialised yet

---

## getMixersForGeometry

```
public static java.lang.String[] getMixersForGeometry(java.lang.String geometry)
```

Return a list of all matrices that belong to the given geometry. If this cache has not been initialised yet or the given geometry is not in the list of geometries in this cache, null is returned.

**Parameters:**

`geometry` - The geometry to which all returned mixers should belong.

**Returns:**

a list of mixers that belong to the given geometry, or null if the cache has not been initialised or the given geometry name is unknown (not in the cache)

---

## initialise

```
public static void initialise(com.google.gwt.user.client.rpc.AsyncCallback  
onInitialised)
```

Initialise the cache. When done, fire the given callback.

**Parameters:**

`onInitialised` - The callback to fire when the cache is initialised. When null, nothing happens when the cache is initialised (but it will be initialised anyway!).

---

## isLoaded

```
public static boolean isLoaded()
```

Return if data has been loaded from the server already.

**Returns:**

if data has been loaded from the server or not

---

---

Package

**nl.tue.fingerpaint.client.storage**

# nl.tue.fingerpaint.client.storage

## Class FileExporter

java.lang.Object

└─nl.tue.fingerpaint.client.storage.FileExporter

```
public class FileExporter
extends java.lang.Object
```

Utility class that can be used to export files.

### Constructor Summary

public	<a href="#">FileExporter()</a>
--------	--------------------------------

### Method Summary

static void	<a href="#">exportCanvasImage</a> (com.google.gwt.canvas.client.Canvas canvas) Exports the canvas to a png image
static void	<a href="#">exportSvgImage</a> (java.lang.String svg) Exports the line chart that is currently shown on screen as an svg image. " xmlns="http://www.w3.org/2000/svg" version="1.1" is automatically added to the resulting svg, so it should not already be present.

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### FileExporter

```
public FileExporter()
```

## Methods

### exportSvgImage

```
public static void exportSvgImage(java.lang.String svg)
```

Exports the line chart that is currently shown on screen as an svg image. " xmlns="http://www.w3.org/2000/svg" version="1.1" is automatically added to the resulting svg, so it should not already be present.

#### Parameters:

svg - SVG image as a string.



(continued from last page)

## **exportCanvasImage**

```
public static void exportCanvasImage(com.google.gwt.canvas.client.Canvas canvas)
```

Exports the canvas to a png image

### **Parameters:**

canvas - Canvas to export

## nl.tue.fingerpaint.client.storage Class FingerpaintJsonizer

java.lang.Object

└-nl.tue.fingerpaint.client.storage.FingerpaintJsonizer

public class **FingerpaintJsonizer**  
extends java.lang.Object

Convenience class that provides functions for creating and parsing JSON strings.

### Constructor Summary

public	<a href="#">FingerpaintJsonizer()</a>
--------	---------------------------------------

### Method Summary

static java.lang.Object[]	<a href="#">arrayFromJSONArray</a> (com.google.gwt.json.client.JSONArray jsonArray) Create an array that is represented by the given JSON array.
static java.util.HashMap	<a href="#">hahsMapFromString</a> (com.google.gwt.json.client.JSONString jsonHashMap) Create a hash map that is represented by the given JSON string.
static java.util.HashMap	<a href="#">hashMapFromJSONObject</a> (com.google.gwt.json.client.JSONObject jsonObj, boolean deep) Create a hash map that is represented by the given JSON object.
static java.util.HashMap	<a href="#">hashMapFromString</a> (java.lang.String jsonHashMap) Create a hash map that is represented by the given JSON string.
static java.util.HashMap	<a href="#">hashMapFromString</a> (java.lang.String jsonHashMap, boolean deep) Create a hash map that is represented by the given JSON string.
static int[]	<a href="#">intArrayFromJSONArray</a> (com.google.gwt.json.client.JSONArray jsonArray) Create an integer array that is represented by the given JSON array.
static int[]	<a href="#">intArrayFromString</a> (java.lang.String jsonIntArray) Create an integer array that is represented by the given JSON string.
static <a href="#">MixingProtocol</a>	<a href="#">protocolFromString</a> (java.lang.String jsonString) Create a MixingProtocol object that is represented by the given JSON String
static <a href="#">ResultStorage</a>	<a href="#">resultStorageFromString</a> (java.lang.String jsonString) Create a ResultStorage object that is represented by the given JSON String
static double[]	<a href="#">toDoubleArray</a> (java.lang.Object[] arr) Cast an array of object to an array of double.
static int[]	<a href="#">toIntArray</a> (java.lang.Object[] arr) Cast an array of object to an array of int.
static java.lang.String	<a href="#">toString</a> (double[] array) Convert a double array to JSON string representation.

static java.lang.String	<a href="#">toString</a> (java.util.HashMap hashMap) Creates a JSON string that is a representation of the given hash map.
static java.lang.String	<a href="#">toString</a> (int[] array) Convert an int array to JSON string representation.
static java.lang.String	<a href="#">toString</a> ( <a href="#">MixingProtocol</a> protocol) Convert a MixingProtocol object to JSON string representation.
static java.lang.String	<a href="#">toString</a> (java.lang.Object object) Creates a JSON string that is a representation of the given object, as good as possible, by looking at the type of the object.
static java.lang.String	<a href="#">toString</a> (java.lang.Object[] objects) Creates a JSON string that is a representation of the given array of objects, as good as possible, by looking at the type of the objects.
static java.lang.String	<a href="#">toString</a> ( <a href="#">ResultStorage</a> result) Convert a StorageResult object to JSON string representation.

**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### FingerpaintJsonizer

```
public FingerpaintJsonizer()
```

## Methods

### arrayFromJSONArray

```
public static java.lang.Object[]  
arrayFromJSONArray(com.google.gwt.json.client.JSONArray jsonArray)
```

Create an array that is represented by the given JSON array.

**Parameters:**

jsonArray - A JSON array that can be used as an array in Java.

**Returns:**

The array that the given JSON array represents.

### intArrayFromJSONArray

```
public static int[] intArrayFromJSONArray(com.google.gwt.json.client.JSONArray  
jsonArray)
```

Create an integer array that is represented by the given JSON array. When a value in the array is not a number, 1.0 is used as a default value.

**Parameters:**

(continued from last page)

`JSONArray` - A JSON array that can be used as an integer array in Java.

**Returns:**

The integer array that the given JSON array represents.

---

## **intArrayFromString**

```
public static int[] intArrayFromString(java.lang.String jsonIntArray)
```

Create an integer array that is represented by the given JSON string. When the given value does not represent an array, null is returned. When a value in the array is not an integer, 1.0 is used as a default value.

**Parameters:**

`jsonIntArray` - A JSON string that represents an array and can be used as an integer array in Java.

**Returns:**

The integer array that the given JSON string represents.

---

## **hashMapFromJSONObject**

```
public static java.util.HashMap  
hashMapFromJSONObject(com.google.gwt.json.client.JSONObject jsonObj,  
boolean deep)
```

Create a hash map that is represented by the given JSON object.

**Parameters:**

`jsonObj` - A JSON object that can be used as a hash map in Java.

`deep` - If the hash map should be constructed on all levels, or just the top level.

**Returns:**

The hash map that the given JSON object represents.

---

## **hahsMapFromString**

```
public static java.util.HashMap  
hahsMapFromString(com.google.gwt.json.client.JSONString jsonHashMap)
```

Create a hash map that is represented by the given JSON string.

**Parameters:**

`jsonHashMap` - A JSON string that represents an object and can be used as a hash map in Java.

**Returns:**

The hash map that the given JSON string represents.

---

## **hashMapFromString**

```
public static java.util.HashMap hashMapFromString(java.lang.String jsonHashMap)
```

Create a hash map that is represented by the given JSON string.

**Parameters:**

`jsonHashMap` - A JSON string that represents an object and can be used as a hash map in Java.

**Returns:**

The hash map that the given JSON string represents. If the string is malformed or does not represent an object, null is returned.

---

---

## hashMapFromString

```
public static java.util.HashMap hashMapFromString(java.lang.String jsonHashMap,  
boolean deep)
```

Create a hash map that is represented by the given JSON string.

**Parameters:**

`jsonHashMap` - A JSON string that represents an object and can be used as a hash map in Java.  
`deep` - If the hash map should be constructed on all levels, or just the top level.

**Returns:**

The hash map that the given JSON string represents. If the string is malformed or does not represent an object, null is returned.

---

## protocolFromString

```
public static MixingProtocol protocolFromString(java.lang.String jsonString)
```

Create a MixingProtocol object that is represented by the given JSON String

**Parameters:**

`jsonString` - A JSON string that represents an object and can be used as a MixingProtocol in Java.

**Returns:**

The MixingProtocol object that the given JSON string represents. If the string is malformed or does not represent an object, null is returned.

---

## resultStorageFromString

```
public static ResultStorage resultStorageFromString(java.lang.String jsonString)
```

Create a ResultStorage object that is represented by the given JSON String

**Parameters:**

`jsonString` - A JSON string that represents an object and can be used as a ResultStorage in Java.

**Returns:**

The ResultStorage object that the given JSON string represents. If the string is malformed or does not represent an object, null is returned.

---

## toString

```
public static java.lang.String toString(double[] array)
```

Convert a double array to JSON string representation.

**Parameters:**

`array` - The array to be JSONised.

**Returns:**

The JSON string that represents the given array.

---

## toString

```
public static java.lang.String toString(int[] array)
```

Convert an int array to JSON string representation.

---

---

(continued from last page)

**Parameters:**

array - The array to be JSONised.

**Returns:**

The JSON string that represents the given array.

---

**toString**

```
public static java.lang.String toString(MixingProtocol protocol)
```

Convert a MixingProtocol object to JSON string representation.

**Parameters:**

protocol - The MixingProtocol to be converted to a JSON string.

**Returns:**

The JSON string that represents the given mixing protocol.

---

**toString**

```
public static java.lang.String toString(ResultStorage result)
```

Convert a StorageResult object to JSON string representation.

**Parameters:**

result - The StorageResult to be converted to a JSON string.

**Returns:**

The JSON string that represents the given mixing protocol.

---

**toString**

```
public static java.lang.String toString(java.util.HashMap hashMap)
```

Creates a JSON string that is a representation of the given hash map.

**Parameters:**

hashMap - The hash map to be converted to a JSON string.

**Returns:**

The JSON string that represents the given hash map.

---

**toString**

```
public static java.lang.String toString(java.lang.Object object)
```

Creates a JSON string that is a representation of the given object, as good as possible, by looking at the type of the object.

**Parameters:**

object - The object to be converted to a JSON string.

**Returns:**

The JSON string that represents the given object.

---

**toString**

```
public static java.lang.String toString(java.lang.Object[] objects)
```

---

---

(continued from last page)

Creates a JSON string that is a representation of the given array of objects, as good as possible, by looking at the type of the objects.

**Parameters:**

`objects` - The array of objects to be converted to a JSON string.

**Returns:**

The JSON string that represents the given objects.

---

## toDoubleArray

```
public static double[] toDoubleArray(java.lang.Object[] arr)
```

Cast an array of object to an array of double. If a value is not an object then 0 is substituted.

**Parameters:**

`arr` - Array to cast.

**Returns:**

Best-try casted array.

---

## toIntArray

```
public static int[] toIntArray(java.lang.Object[] arr)
```

Cast an array of object to an array of int. If a value is not an object then 0 is substituted.

**Parameters:**

`arr` - Array to cast.

**Returns:**

Best-try casted array.

---

## nl.tue.fingerpaint.client.storage

### Class FingerpaintZipper

java.lang.Object

└─nl.tue.fingerpaint.client.storage.FingerpaintZipper

public class **FingerpaintZipper**  
extends java.lang.Object

Convenience class that provides native JavaScript functions for compressing and decompressing Strings.

#### Constructor Summary

public	<a href="#">FingerpaintZipper()</a>
--------	-------------------------------------

#### Method Summary

static java.lang.String	<a href="#">unzip</a> (java.lang.String input) Unzips a .zip file, that was zipped by FingerpaintZipper.zip and decompresses its contents.
static native java.lang.String	<a href="#">zip</a> (java.lang.String input) Compresses a string and puts it in a .zip file.

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

#### Constructors

##### FingerpaintZipper

public **FingerpaintZipper**()

#### Methods

##### zip

public static native java.lang.String **zip**(java.lang.String input)

Compresses a string and puts it in a .zip file.

##### Parameters:

input - The string to compress

##### Returns:

The compressed string



(continued from last page)

**unzip**

```
public static java.lang.String unzip(java.lang.String input)
```

Unzips a .zip file, that was zipped by FingerpaintZipper.zip and decompresses its contents.

**Parameters:**

input - The string representation of the .zip file

**Returns:**

The decompressed content of the .zip file

## nl.tue.fingerpaint.client.storage

### Class ResultStorage

java.lang.Object

└-nl.tue.fingerpaint.client.storage.ResultStorage

```
public class ResultStorage
extends java.lang.Object
```

Class that holds everything needed to store a mixing result.

#### Constructor Summary

public	<a href="#">ResultStorage()</a>
--------	---------------------------------

#### Method Summary

int[]	<a href="#">getDistribution()</a> Gives the initial concentration distribution that was used
java.lang.String	<a href="#">getGeometry()</a> Gives the long name of the geometry used
java.lang.String	<a href="#">getMixer()</a> Gives the name of the mixer used
<a href="#">MixingProtocol</a>	<a href="#">getMixingProtocol()</a> Gives the protocol object that was used
int	<a href="#">getNrSteps()</a> Gives the number of times the protocol was executed
java.lang.String	<a href="#">getProtocol()</a> Gives a string representation of the protocol that was used
double[]	<a href="#">getSegregation()</a> Gives the segregation points
java.lang.String	<a href="#">getZippedDistribution()</a> Gives the zipped string representation of the initial concentration distribution that was used
void	<a href="#">setDistribution(int[] distribution)</a> Sets the initial concentration distribution
void	<a href="#">setGeometry(java.lang.String geometry)</a> Sets the geometry name
void	<a href="#">setMixer(java.lang.String mixer)</a> Sets the mixer name
void	<a href="#">setMixingProtocol(<a href="#">MixingProtocol</a> protocol)</a> Sets the protocol

void	<a href="#">setNrSteps</a> (int nrSteps) Sets the number of times the protocol was executed
void	<a href="#">setProtocol</a> (java.lang.String protocol) Sets the protocol
void	<a href="#">setSegregation</a> (double[] segregation) Sets the segregation points
void	<a href="#">setZippedDistribution</a> (java.lang.String zippedDist) Sets the zipped string representation of the initial concentration distribution

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### ResultStorage

```
public ResultStorage()
```

## Methods

### getGeometry

```
public java.lang.String getGeometry()
```

Gives the long name of the geometry used

**Returns:**

The long name of the geometry used

### setGeometry

```
public void setGeometry(java.lang.String geometry)
```

Sets the geometry name

**Parameters:**

geometry - The geometry to set

### getMixer

```
public java.lang.String getMixer()
```

Gives the name of the mixer used

**Returns:**

The name of the mixer used

---

(continued from last page)

## setMixer

```
public void setMixer(java.lang.String mixer)
```

Sets the mixer name

**Parameters:**

mixer - The mixer to set

---

## getDistribution

```
public int[] getDistribution()
```

Gives the initial concentration distribution that was used

**Returns:**

The initial concentration distribution that was used

---

## setDistribution

```
public void setDistribution(int[] distribution)
```

Sets the initial concentration distribution

**Parameters:**

distribution - The concentration distribution to set

---

## getZippedDistribution

```
public java.lang.String getZippedDistribution()
```

Gives the zipped string representation of the initial concentration distribution that was used

**Returns:**

The zipped string representation of the initial concentration distribution that was used

---

## setZippedDistribution

```
public void setZippedDistribution(java.lang.String zippedDist)
```

Sets the zipped string representation of the initial concentration distribution

**Parameters:**

zippedDist - The zipped distribution to set

---

## getProtocol

```
public java.lang.String getProtocol()
```

Gives a string representation of the protocol that was used

**Returns:**

String representation of the protocol that was used

---

## setProtocol

```
public void setProtocol(java.lang.String protocol)
```

---

---

(continued from last page)

Sets the protocol

**Parameters:**

`protocol` - String representation of the protocol to set

---

**getMixingProtocol**

```
public MixingProtocol getMixingProtocol()
```

Gives the protocol object that was used

**Returns:**

The protocol that was used

---

**setMixingProtocol**

```
public void setMixingProtocol(MixingProtocol protocol)
```

Sets the protocol

**Parameters:**

`protocol` - The protocol object to set

---

**getSegregation**

```
public double[] getSegregation()
```

Gives the segregation points

**Returns:**

Double array with the segregation points

---

**setSegregation**

```
public void setSegregation(double[] segregation)
```

Sets the segregation points

**Parameters:**

`segregation` - Double array containing the segregation points to set

---

**getNrSteps**

```
public int getNrSteps()
```

Gives the number of times the protocol was executed

**Returns:**

The number of times the protocol was executed

---

**setNrSteps**

```
public void setNrSteps(int nrSteps)
```

Sets the number of times the protocol was executed

**Parameters:**

`nrSteps` - The amount to set

---

## nl.tue.fingerpaint.client.storage Class StorageManager

java.lang.Object

└-nl.tue.fingerpaint.client.storage.StorageManager

```
public class StorageManager
extends java.lang.Object
```

A StorageManager manages the local storage in the browser. There is only one instance of the storage manager, that must be used for all interaction with the storage.

The local storage is structured as follows:

- [KEY\\_INITDIST](#)
  - [GeometryNames.RECT](#)
    - Name of some saved distribution for a rectangular geometry
    - Other name
    - ...
  - [GeometryNames.SQR](#)
    - Name of saved distribution for a square geometry
    - Other name
    - ...
  - [GeometryNames.CIRC](#)
    - Name of saved distribution for a circle geometry
    - Other name
    - ...
  - [GeometryNames.JOBE](#)
    - Name of saved distribution for a journal bearing geometry
    - Other name
    - ...
- [KEY\\_PROTOCOLS](#)
  - Same structure as for previous key, only with saved protocols instead of saved distributions.
- [KEY\\_RESULTS](#)
  - Name of saved result
  - Other name
  - ...

### Field Summary

public static final	<a href="#">ERROR</a> Used to indicate that the local storage cannot be used. Value: <b>-1</b>
protected	<a href="#">firstLevelKeys</a> Keys that are used on the first level.
public static final	<a href="#">INITIALISED</a> Used to indicate that the local storage is ready for use. Value: <b>1</b>
public static	<a href="#">INSTANCE</a> Instance that must be used for interaction with local storage.

public static final	<a href="#">KEY_INITDIST</a> Key on the highest level of the local storage that can be used to obtain/store a list of saved (initial) distributions. Value: <b>INIT</b>
public static final	<a href="#">KEY_PROTOCOLS</a> Key on the highest level of the local storage that can be used to obtain/store a list of saved protocols. Value: <b>PROT</b>
public static final	<a href="#">KEY_RESULTS</a> Key on the highest level of the local storage that can be used to obtain/store a list of saved results. Value: <b>RES</b>
protected	<a href="#">localStorage</a> GWT object that is the actual interface with the local storage.
public static final	<a href="#">NAME_IN_USE_ERROR</a> Error code for when the name is in use. Value: <b>2</b>
public static final	<a href="#">NONEXISTANT_KEY_ERROR</a> Error code for an unknown key in storage. Value: <b>4</b>
public static final	<a href="#">NOT_INITIALISED</a> Used to indicate that the local storage has not yet been initialised. Value: <b>0</b>
public static final	<a href="#">NOT_INITIALISED_ERROR</a> Error code for when the storage is not initialised. Value: <b>1</b>
public static final	<a href="#">QUOTA_EXCEEDED_ERROR</a> Error code for when the storage is full. Value: <b>3</b>
public static final	<a href="#">SAVE_SUCCESSFUL</a> Error code for successful saves. Value: <b>0</b>
protected	<a href="#">secondLevelKeys</a> Keys that are used on the second level.
protected	<a href="#">state</a> State of the storage.
public static final	<a href="#">UNKNOWN_ERROR</a> Error code for other errors. Value: <b>5</b>

## Constructor Summary

protected	<a href="#">StorageManager()</a> Make constructor protected to prevent instantiations of this class.
-----------	---

## Method Summary

int[]	<a href="#">getDistribution</a> (java.lang.String geometry, java.lang.String key) Return the distribution that is stored with given name, or null if such a distribution does not exist.
java.util.List	<a href="#">getDistributions</a> (java.lang.String geometry) Return a list of all distributions stored under the given geometry.
<a href="#">MixingProtocol</a>	<a href="#">getProtocol</a> (java.lang.String geometry, java.lang.String key) Return the protocol that is stored with given name, or null if such a protocol does not exist.
java.util.ArrayList	<a href="#">getProtocols</a> (java.lang.String geometry) Return a list of all protocols stored under the given geometry.
<a href="#">ResultStorage</a>	<a href="#">getResult</a> (java.lang.String key) Return the result that is stored with given name, or null if such a result does not exist.
java.util.List	<a href="#">getResults</a> () Return a list of all results stored in the local storage currently.
boolean	<a href="#">isNameInUse</a> (java.lang.String firstLevelKey, java.lang.String secondLevelKey, java.lang.String thirdLevelKey) Returns if there is a key at the specified level with given name.
int	<a href="#">putDistribution</a> (java.lang.String geometry, java.lang.String key, int[] value) Save an initial distribution to the local storage.
int	<a href="#">putDistribution</a> (java.lang.String geometry, java.lang.String key, int[] value, boolean overwrite) Save an initial distribution to the local storage.
int	<a href="#">putProtocol</a> (java.lang.String geometry, java.lang.String key, <a href="#">MixingProtocol</a> protocol) Save a mixing protocol to the local storage.
int	<a href="#">putProtocol</a> (java.lang.String geometry, java.lang.String key, <a href="#">MixingProtocol</a> protocol, boolean overwrite) Save a mixing protocol to the local storage.
int	<a href="#">putResult</a> (java.lang.String key, <a href="#">ResultStorage</a> result) Save a mixing result to the local storage.
int	<a href="#">putResult</a> (java.lang.String key, <a href="#">ResultStorage</a> result, boolean overwrite) Save a mixing result to the local storage.
boolean	<a href="#">removeDistribution</a> (java.lang.String key, java.lang.String geometry) Remove a distribution with the given name from the local storage.
boolean	<a href="#">removeProtocol</a> (java.lang.String key, java.lang.String geometry) Remove a protocol with the given name from the local storage.
boolean	<a href="#">removeResult</a> (java.lang.String key) Remove a result with the given name from the local storage.

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait



---

## Fields

### ERROR

```
public static final int ERROR
```

Used to indicate that the local storage cannot be used.  
Constant value: **-1**

---

### NOT\_INITIALISED

```
public static final int NOT_INITIALISED
```

Used to indicate that the local storage has not yet been initialised.  
Constant value: **0**

---

### INITIALISED

```
public static final int INITIALISED
```

Used to indicate that the local storage is ready for use.  
Constant value: **1**

---

### KEY\_INITDIST

```
public static final java.lang.String KEY_INITDIST
```

Key on the highest level of the local storage that can be used to obtain/store a list of saved (initial) distributions.  
Constant value: **INIT**

---

### KEY\_PROTOCOLS

```
public static final java.lang.String KEY_PROTOCOLS
```

Key on the highest level of the local storage that can be used to obtain/store a list of saved protocols.  
Constant value: **PROT**

---

### KEY\_RESULTS

```
public static final java.lang.String KEY_RESULTS
```

Key on the highest level of the local storage that can be used to obtain/store a list of saved results. A result is a complete application state.  
Constant value: **RES**

---

### SAVE\_SUCCESSFUL

```
public static final int SAVE_SUCCESSFUL
```

Error code for successful saves.  
Constant value: **0**

---

### NOT\_INITIALISED\_ERROR

```
public static final int NOT_INITIALISED_ERROR
```

Error code for when the storage is not initialised.

---

(continued from last page)

Constant value: 1

---

## NAME\_IN\_USE\_ERROR

```
public static final int NAME_IN_USE_ERROR
```

Error code for when the name is in use.  
Constant value: 2

---

## QUOTA\_EXCEEDED\_ERROR

```
public static final int QUOTA_EXCEEDED_ERROR
```

Error code for when the storage is full.  
Constant value: 3

---

## NONEXISTANT\_KEY\_ERROR

```
public static final int NONEXISTANT_KEY_ERROR
```

Error code for an unknown key in storage.  
Constant value: 4

---

## UNKNOWN\_ERROR

```
public static final int UNKNOWN_ERROR
```

Error code for other errors.  
Constant value: 5

---

## INSTANCE

```
public static nl.tue.fingerpaint.client.storage.StorageManager INSTANCE
```

Instance that must be used for interaction with local storage.

---

## localStorage

```
protected com.google.gwt.storage.client.Storage localStorage
```

GWT object that is the actual interface with the local storage.

---

## state

```
protected int state
```

State of the storage.

---

## firstLevelKeys

```
protected java.lang.String firstLevelKeys
```

Keys that are used on the first level.

---

## secondLevelKeys

```
protected java.lang.String secondLevelKeys
```

Keys that are used on the second level.

## Constructors

### StorageManager

```
protected StorageManager()
```

Make constructor protected to prevent instantiations of this class.

## Methods

### getDistribution

```
public int[] getDistribution(java.lang.String geometry,  
    java.lang.String key)
```

Return the distribution that is stored with given name, or null if such a distribution does not exist.

**Parameters:**

`geometry` - The geometry in which the distribution is stored.  
`key` - The name of the saved distribution.

**Returns:**

The saved distribution, or null if no distribution with the given name was saved. This function will also return null if the storage cannot be used.

### getDistributions

```
public java.util.List getDistributions(java.lang.String geometry)
```

Return a list of all distributions stored under the given geometry.

**Parameters:**

`geometry` - The geometry under which saved distributions need to be found.

**Returns:**

A list of all saved distributions (may be an empty list), or null if the given geometry is not at all present in the storage. When the latter happens, you probably asked for a non-existent geometry, because all default geometries are loaded in the storage on initialisation. This function will also return null if the storage cannot be used.

### getProtocols

```
public java.util.ArrayList getProtocols(java.lang.String geometry)
```

Return a list of all protocols stored under the given geometry.

**Parameters:**

`geometry` - The geometry under which saved protocols need to be found.

**Returns:**

A list of all saved protocols (may be an empty list), or null if the given geometry is not at all present in the storage. When the latter happens, you probably asked for a non-existent geometry, because all default geometries are loaded in the storage on initialisation. This function will also return null if the storage cannot be used.

### getProtocol

```
public MixingProtocol getProtocol(java.lang.String geometry,  
    java.lang.String key)
```

Return the protocol that is stored with given name, or null if such a protocol does not exist.

---

(continued from last page)

**Parameters:**

`geometry` - The geometry in which the protocol is stored.  
`key` - The name of the saved protocol.

**Returns:**

The saved protocol, or null if no protocol with the given name was saved. This function will also return null if the storage cannot be used.

---

## getResults

```
public java.util.List getResults()
```

Return a list of all results stored in the local storage currently.

**Returns:**

A list of all saved results (may be an empty list), or null if the storage cannot be used.

---

## getResult

```
public ResultStorage getResult(java.lang.String key)
```

Return the result that is stored with given name, or null if such a result does not exist.

**Parameters:**

`key` - The name of the saved result.

**Returns:**

The saved result, or null if no result with the given name was saved. This function will also return null if the storage cannot be used.

---

## putDistribution

```
public int putDistribution(java.lang.String geometry,  
    java.lang.String key,  
    int[] value)
```

Save an initial distribution to the local storage. If the name already exists, do not attempt to overwrite.

**Parameters:**

`geometry` - The geometry to store the distribution under.  
`key` - The name of the distribution.  
`value` - The distribution to be saved.

**Returns:**

- `SAVE_SUCCESSFUL` If saving was successful.
  - `NOT_INITIALISED_ERROR` If the local storage is not initialised.
  - `NAME_IN_USE_ERROR` If the name is already in use.
  - `QUOTA_EXCEEDED_ERROR` If the local storage is full.
  - `NONEXISTANT_KEY_ERROR` If the key does not exist.
  - `UNKNOWN_ERROR` If an error occurs, other than those above.
-

(continued from last page)

## putDistribution

```
public int putDistribution(java.lang.String geometry,  
    java.lang.String key,  
    int[] value,  
    boolean overwrite)
```

Save an initial distribution to the local storage. If the name already exists, does overwrite when asked.

### Parameters:

geometry - The geometry to store the distribution under.  
key - The name of the distribution.  
value - The distribution to be saved.  
overwrite - If the value should be overwritten if the name is already in use.

### Returns:

- `SAVE_SUCCESSFUL` If saving was successful.
- `NOT_INITIALISED_ERROR` If the local storage is not initialised.
- `NAME_IN_USE_ERROR` If the name is already in use.
- `QUOTA_EXCEEDED_ERROR` If the local storage is full.
- `NONEXISTANT_KEY_ERROR` If the key does not exist.
- `UNKNOWN_ERROR` If an error occurs, other than those above.

---

## putProtocol

```
public int putProtocol(java.lang.String geometry,  
    java.lang.String key,  
    MixingProtocol protocol)
```

Save a mixing protocol to the local storage. If the name already exists, do not attempt to overwrite.

### Parameters:

geometry - The geometry to store the distribution under.  
key - The name of the protocol.  
protocol - The protocol to be saved.

### Returns:

- `SAVE_SUCCESSFUL` If saving was successful.
- `NOT_INITIALISED_ERROR` If the local storage is not initialised.
- `NAME_IN_USE_ERROR` If the name is already in use.
- `QUOTA_EXCEEDED_ERROR` If the local storage is full.
- `NONEXISTANT_KEY_ERROR` If the key does not exist.
- `UNKNOWN_ERROR` If an error occurs, other than those above.

---

## putProtocol

```
public int putProtocol(java.lang.String geometry,  
    java.lang.String key,  
    MixingProtocol protocol,  
    boolean overwrite)
```

Save a mixing protocol to the local storage. If the name already exists, do not attempt to overwrite.

(continued from last page)

**Parameters:**

`geometry` - The short name of the geometry to store the distribution under.  
`key` - The name of the protocol.  
`protocol` - The protocol to be saved.  
`overwrite` - If the value should be overwritten if the name is already in use.

**Returns:**

- `SAVE_SUCCESSFUL` If saving was successful.
- `NOT_INITIALISED_ERROR` If the local storage is not initialised.
- `NAME_IN_USE_ERROR` If the name is already in use.
- `QUOTA_EXCEEDED_ERROR` If the local storage is full.
- `NONEXISTANT_KEY_ERROR` If the key does not exist.
- `UNKNOWN_ERROR` If an error occurs, other than those above.

---

**putResult**

```
public int putResult(java.lang.String key,  
    ResultStorage result)
```

Save a mixing result to the local storage. If the name already exists, do not attempt to overwrite.

**Parameters:**

`key` - The name of the result.  
`result` - The result to be saved.

**Returns:**

- `SAVE_SUCCESSFUL` If saving was successful.
- `NOT_INITIALISED_ERROR` If the local storage is not initialised.
- `NAME_IN_USE_ERROR` If the name is already in use.
- `QUOTA_EXCEEDED_ERROR` If the local storage is full.
- `NONEXISTANT_KEY_ERROR` If the key does not exist.
- `UNKNOWN_ERROR` If an error occurs, other than those above.

---

**putResult**

```
public int putResult(java.lang.String key,  
    ResultStorage result,  
    boolean overwrite)
```

Save a mixing result to the local storage. If the name already exists, do not attempt to overwrite.

**Parameters:**

`key` - The name of the result.  
`result` - The result to be saved.  
`overwrite` - If the value should be overwritten if the name is already in use.

**Returns:**

---

(continued from last page)

- `SAVE_SUCCESSFUL` If saving was successful.
- `NOT_INITIALISED_ERROR` If the local storage is not initialised.
- `NAME_IN_USE_ERROR` If the name is already in use.
- `QUOTA_EXCEEDED_ERROR` If the local storage is full.
- `NONEXISTANT_KEY_ERROR` If the key does not exist.
- `UNKNOWN_ERROR` If an error occurs, other than those above.

---

## removeDistribution

```
public boolean removeDistribution(java.lang.String key,  
    java.lang.String geometry)
```

Remove a distribution with the given name from the local storage.

### Parameters:

`geometry` - The short name of the geometry the distribution resides under.  
`key` - The name of the distribution to remove.

### Returns:

True if a distribution with the given name is removed from the storage, false if no distribution with the given name is present in the storage.

---

## removeProtocol

```
public boolean removeProtocol(java.lang.String key,  
    java.lang.String geometry)
```

Remove a protocol with the given name from the local storage.

### Parameters:

`geometry` - The short name of the geometry the protocol resides under.  
`key` - The name of the protocol to remove.

### Returns:

True if a protocol with the given name is removed from the storage, false if no protocol with the given name is present in the storage.

---

## removeResult

```
public boolean removeResult(java.lang.String key)
```

Remove a result with the given name from the local storage.

### Parameters:

`key` - The name of the result to remove.

### Returns:

True if a result with the given name is removed from the storage, false if no result with the given name is present in the storage.

---

## isNameInUse

```
protected boolean isNameInUse(java.lang.String firstLevelKey,  
    java.lang.String secondLevelKey,  
    java.lang.String thirdLevelKey)
```

(continued from last page)

Returns if there is a key at the specified level with given name. When you want to test a key on the second level, leave the value for the third level null.

**Parameters:**

`firstLevelKey` - The key on the highest level. Needs to be set, needs to be one of [KEY\\_INITDIST](#), [KEY\\_PROTOCOLS](#) or [KEY\\_RESULTS](#).

`secondLevelKey` - The key on the second level. Needs to be set and either some name, to test if that name exists among all saved results, or a geometry name. In the latter case, it should be one of the short names from the [GeometryNames](#).

`thirdLevelKey` - The key on the third level. Leave this null when looking for a result name, or provide the name to check here otherwise.

**Returns:**

If the key exists or not. When `firstLevelKey` or `secondLevelKey` are not set, then this function returns true.



---

Package

**nl.tue.fingerpaint.server.serverdata**

## nl.tue.fingerpaint.server.serverdata Class ServerDataServiceImpl

```

java.lang.Object
  |-- javax.servlet.GenericServlet
    |-- javax.servlet.http.HttpServlet
      |-- com.google.gwt.user.server.rpc.AbstractRemoteServiceServlet
        |-- com.google.gwt.user.server.rpc.RemoteServiceServlet
          |-- nl.tue.fingerpaint.server.serverdata.ServerDataServiceImpl
  
```

### All Implemented Interfaces:

[ServerDataService](#), [java.io.Serializable](#), [javax.servlet.ServletConfig](#), [javax.servlet.Servlet](#), [java.io.Serializable](#), [com.google.gwt.user.server.rpc.SerializationPolicyProvider](#)

```

public class ServerDataServiceImpl
  extends com.google.gwt.user.server.rpc.RemoteServiceServlet
  implements com.google.gwt.user.server.rpc.SerializationPolicyProvider, java.io.Serializable,
  javax.servlet.Servlet, javax.servlet.ServletConfig, java.io.Serializable, ServerDataService
  
```

Implementation of the [ServerDataService](#).

#### Fields inherited from class com.google.gwt.user.server.rpc.AbstractRemoteServiceServlet

perThreadRequest, perThreadResponse

### Constructor Summary

public [ServerDataServiceImpl](#)()

### Method Summary

[ServerDataResult](#) [getServerData](#)()  
Returns server data, i.e. which geometries and mixers are available.

#### Methods inherited from class com.google.gwt.user.server.rpc.RemoteServiceServlet

checkPermutationStrongName, doGetSerializationPolicy, getSerializationPolicy, onAfterResponseSerialized, onBeforeRequestDeserialized, processCall, processPost, shouldCompressResponse

#### Methods inherited from class com.google.gwt.user.server.rpc.AbstractRemoteServiceServlet

doPost, doUnexpectedFailure, getPermutationStrongName, getThreadLocalRequest, getThreadLocalResponse, onAfterRequestDeserialized, processPost, readContent

#### Methods inherited from class javax.servlet.http.HttpServlet

doDelete, doGet, doHead, doOptions, doPost, doPut, doTrace, getLastModified, service, service

#### Methods inherited from class javax.servlet.GenericServlet

```
destroy, getInitParameter, getInitParameterNames, getServletConfig,  
getServletContext, getServletInfo, getServletName, init, init, log, log, service
```

**Methods inherited from class** `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

**Methods inherited from interface** `javax.servlet.Servlet`

```
destroy, getServletConfig, getServletInfo, init, service
```

**Methods inherited from interface** `javax.servlet.ServletConfig`

```
getInitParameter, getInitParameterNames, getServletContext, getServletName
```

**Methods inherited from interface** `com.google.gwt.user.server.rpc.SerializationPolicyProvider`

```
getSerializationPolicy
```

**Methods inherited from interface** [nl.tue.fingerpaint.shared.serverdata.ServerDataService](#)

```
getServerData
```

## Constructors

### ServerDataServiceImpl

```
public ServerDataServiceImpl()
```

## Methods

### getServerData

```
public ServerDataResult getServerData()
```

Returns server data, i.e. which geometries and mixers are available.

**Returns:**

server data, i.e. which geometries and mixers are available.

---

Package

**nl.tue.fingerpaint.server.simulator**

## nl.tue.fingerpaint.server.simulator Class SimulatorServiceImpl

```

java.lang.Object
  |-- javax.servlet.GenericServlet
    |-- javax.servlet.http.HttpServlet
      |-- com.google.gwt.user.server.rpc.AbstractRemoteServiceServlet
        |-- com.google.gwt.user.server.rpc.RemoteServiceServlet
          |-- nl.tue.fingerpaint.server.simulator.SimulatorServiceImpl

```

### All Implemented Interfaces:

[SimulatorService](#), java.io.Serializable, javax.servlet.ServletConfig, javax.servlet.Servlet, java.io.Serializable, com.google.gwt.user.server.rpc.SerializationPolicyProvider

```

public class SimulatorServiceImpl
  extends com.google.gwt.user.server.rpc.RemoteServiceServlet
  implements com.google.gwt.user.server.rpc.SerializationPolicyProvider, java.io.Serializable,
  javax.servlet.Servlet, javax.servlet.ServletConfig, java.io.Serializable, SimulatorService

```

Implementation of the [SimulatorService](#) RPC class.

#### Fields inherited from class com.google.gwt.user.server.rpc.AbstractRemoteServiceServlet

perThreadRequest, perThreadResponse

### Constructor Summary

public [SimulatorServiceImpl](#)()

### Method Summary

void [doUnexpectedFailure](#)(java.lang.Throwable e)

[SimulationResult](#) [simulate](#)([Simulation](#) request)  
Simulates a result.

#### Methods inherited from class com.google.gwt.user.server.rpc.RemoteServiceServlet

checkPermutationStrongName, doGetSerializationPolicy, getSerializationPolicy, onAfterResponseSerialized, onBeforeRequestDeserialized, processCall, processPost, shouldCompressResponse

#### Methods inherited from class com.google.gwt.user.server.rpc.AbstractRemoteServiceServlet

doPost, doUnexpectedFailure, getPermutationStrongName, getThreadLocalRequest, getThreadLocalResponse, onAfterRequestDeserialized, processPost, readContent

#### Methods inherited from class javax.servlet.http.HttpServlet

```
doDelete, doGet, doHead, doOptions, doPost, doPut, doTrace, getLastModified, service,
service
```

#### Methods inherited from class `javax.servlet.GenericServlet`

```
destroy, getInitParameter, getInitParameterNames, getServletConfig,
getServletContext, getServletInfo, getServletName, init, init, log, log, service
```

#### Methods inherited from class `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,
wait
```

#### Methods inherited from interface `javax.servlet.Servlet`

```
destroy, getServletConfig, getServletInfo, init, service
```

#### Methods inherited from interface `javax.servlet.ServletConfig`

```
getInitParameter, getInitParameterNames, getServletContext, getServletName
```

#### Methods inherited from interface `com.google.gwt.user.server.rpc.SerializationPolicyProvider`

```
getSerializationPolicy
```

#### Methods inherited from interface [nl.tue.fingerpaint.shared.simulator.SimulatorService](#)

```
simulate
```

## Constructors

### SimulatorServiceImpl

```
public SimulatorServiceImpl()
```

## Methods

### doUnexpectedFailure

```
protected void doUnexpectedFailure(java.lang.Throwable e)
```

### simulate

```
public SimulationResult simulate(Simulation request)
```

Simulates a result.

#### Parameters:

`request` - The Simulation that contains the parameters needed to run the simulation. The concentration vector is compressed.

(continued from last page)

**Returns:**

The SimulationResult achieved by running the simulation on the request.

---

Package

**nl.tue.fingerpaint.shared**



## nl.tue.fingerpaint.shared Class GeometryNames

```
java.lang.Object
  |
  +-nl.tue.fingerpaint.shared.GeometryNames
```

```
public class GeometryNames
  extends java.lang.Object
```

A class that contains the geometry names for all the different geometries that are used in the Fingerpaint application.

### Field Summary

public static final	<a href="#">CIRC</a> The long name for the circular geometry. Value: <b>Circle</b>
public static final	<a href="#">JOBE</a> The long name for the 'Journal Bearing' geometry. Value: <b>Journal Bearing</b>
public static final	<a href="#">RECT</a> The long name for the rectangular geometry. Value: <b>Rectangle 400x240</b>
public static final	<a href="#">SQR</a> The long name for the square geometry. Value: <b>Square</b>

### Constructor Summary

public	<a href="#">GeometryNames()</a>
--------	---------------------------------

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Fields

#### RECT

```
public static final java.lang.String RECT
```

The long name for the rectangular geometry.  
Constant value: **Rectangle 400x240**

(continued from last page)

## SQR

```
public static final java.lang.String SQR
```

The long name for the square geometry.  
Constant value: **Square**

---

## CIRC

```
public static final java.lang.String CIRC
```

The long name for the circular geometry.  
Constant value: **Circle**

---

## JOBE

```
public static final java.lang.String JOBE
```

The long name for the 'Journal Bearing' geometry.  
Constant value: **Journal Bearing**

---

## Constructors

### GeometryNames

```
public GeometryNames()
```

## nl.tue.fingerpaint.shared Class MixerNames

java.lang.Object

└-nl.tue.fingerpaint.shared.MixerNames

```
public class MixerNames
extends java.lang.Object
```

A class that contains the mixer names for all the different geometries that are used in the Fingerpaint application.

### Nested Class Summary

class	<a href="#">MixerNames.RectMixers</a> MixerNames.RectMixers
class	<a href="#">MixerNames.SqrMixers</a> MixerNames.SqrMixers

### Constructor Summary

public	<a href="#">MixerNames()</a>
--------	------------------------------

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### MixerNames

```
public MixerNames()
```

## nl.tue.fingerpaint.shared Class MixerNames.RectMixers

java.lang.Object

└─nl.tue.fingerpaint.shared.MixerNames.RectMixers

public static class **MixerNames.RectMixers**  
extends java.lang.Object

All mixer names that are applicable for the rectangular geometry.

See Also:

[GeometryNames.RECT](#)

### Field Summary

public static final	<a href="#">DEFAULT</a> The default mixer for the rectangular geometry. Value: <b>Default</b>
---------------------	---

### Constructor Summary

public	<a href="#">MixerNames.RectMixers()</a>
--------	---

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Fields

#### DEFAULT

public static final java.lang.String **DEFAULT**

The default mixer for the rectangular geometry.  
Constant value: **Default**

### Constructors

#### MixerNames.RectMixers

public **MixerNames.RectMixers()**

## nl.tue.fingerpaint.shared Class MixerNames.SqrMixers

java.lang.Object

└─nl.tue.fingerpaint.shared.MixerNames.SqrMixers

```
public static class MixerNames.SqrMixers
extends java.lang.Object
```

All mixer names that are applicable for the square geometry.

See Also:

[GeometryNames.SQR](#)

### Field Summary

public static final	<a href="#">DEFAULT</a> The default mixer for the square geometry. Value: <b>Default</b>
---------------------	--

### Constructor Summary

public	<a href="#">MixerNames.SqrMixers()</a>
--------	--

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Fields

### DEFAULT

```
public static final java.lang.String DEFAULT
```

The default mixer for the square geometry.  
Constant value: **Default**

## Constructors

### MixerNames.SqrMixers

```
public MixerNames.SqrMixers()
```

# nl.tue.fingerpaint.shared Class ServerDataResult

java.lang.Object

└─nl.tue.fingerpaint.shared.ServerDataResult

## All Implemented Interfaces:

java.io.Serializable

```
public class ServerDataResult
extends java.lang.Object
implements java.io.Serializable
```

A ServerDataResult object represents data that is retrieved from the server. Currently, this is a list of available geometries, a list of mixers and a mapping of to which geometry a mixer belongs.

Field Summary	
protected	<a href="#">geometries</a> A list of all available geometries.
protected	<a href="#">mixerGeometryMapping</a> A mapping that indicates to which geometry a mixer belongs.
protected	<a href="#">mixers</a> A list of all available mixers.
protected static final	<a href="#">serialVersionUID</a> Generated serial version UID. Value: <b>-2040708625316261983</b>

Constructor Summary	
public	<a href="#">ServerDataResult()</a> Construct a new <a href="#">ServerDataResult</a> with no geometries and/or mixers available.
public	<a href="#">ServerDataResult(java.lang.String[] geometries, java.lang.String[] mixers, int[] mixerGeometryMapping)</a> Construct a new <a href="#">ServerDataResult</a> .

Method Summary	
java.lang.String[]	<a href="#">getGeometries()</a> Get the list of available geometries.
int[]	<a href="#">getMixerGeometryMapping()</a> Get the mapping from mixers to geometries.
java.lang.String[]	<a href="#">getMixers()</a> Get the list of available mixers.
void	<a href="#">setGeometries(java.lang.String[] geometries)</a> Change the available geometries.

void	<a href="#">setMixerGeometryMapping</a> (int[] mixerGeometryMapping) Change the mapping from mixers to geometries.
void	<a href="#">setMixers</a> (java.lang.String[] mixers) Change the available mixers.

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Fields

### serialVersionUID

protected static final long **serialVersionUID**

Generated serial version UID.  
Constant value: **-2040708625316261983**

### geometries

protected java.lang.String **geometries**

A list of all available geometries.

### mixers

protected java.lang.String **mixers**

A list of all available mixers.

### mixerGeometryMapping

protected int **mixerGeometryMapping**

A mapping that indicates to which geometry a mixer belongs.

It means that when [mixerGeometryMapping](#)[i] == j, then the mixer at index i in [mixers](#) belongs to the geometry at index j in [geometries](#).

## Constructors

### ServerDataResult

public **ServerDataResult**()

Construct a new [ServerDataResult](#) with no geometries and/or mixers available.

### ServerDataResult

```
public ServerDataResult(java.lang.String[] geometries,
                        java.lang.String[] mixers,
                        int[] mixerGeometryMapping)
```

---

(continued from last page)

Construct a new [ServerDataResult](#).

**Parameters:**

`geometries` - List of available geometries.

`mixers` - List of available mixers.

`mixerGeometryMapping` - Mapping from mixers to geometries.

## Methods

### getGeometries

```
public java.lang.String[] getGeometries()
```

Get the list of available geometries.

**Returns:**

list of available geometries

---

### getMixers

```
public java.lang.String[] getMixers()
```

Get the list of available mixers.

**Returns:**

list of available mixers

---

### getMixerGeometryMapping

```
public int[] getMixerGeometryMapping()
```

Get the mapping from mixers to geometries.

**Returns:**

mapping from mixers to geometries

---

### setGeometries

```
public void setGeometries(java.lang.String[] geometries)
```

Change the available geometries.

**Note: this should be compatible with the mixers and mapping in this class!**

**Parameters:**

`geometries` - New list of available geometries.

---

### setMixers

```
public void setMixers(java.lang.String[] mixers)
```

Change the available mixers.

**Note: this should be compatible with the geometries and mapping in this class!**



(continued from last page)

**Parameters:**mixers - New list of available mixers.

---

**setMixerGeometryMapping**

```
public void setMixerGeometryMapping(int[] mixerGeometryMapping)
```

Change the mapping from mixers to geometries.

**Note: this should be compatible with the geometries and mixers in this class!**

**Parameters:**

mixerGeometryMapping - New mapping from mixers to geometries.

---

Package

**nl.tue.fingerpaint.shared.model**

# nl.tue.fingerpaint.shared.model

## Class MixingProtocol

java.lang.Object

└─nl.tue.fingerpaint.shared.model.MixingProtocol

### All Implemented Interfaces:

java.io.Serializable

```
public class MixingProtocol
extends java.lang.Object
implements java.io.Serializable
```

This class symbolises a mixing program consisting of a number of mixing steps

## Constructor Summary

public	<a href="#">MixingProtocol()</a> Construct a new protocol that applies to the rectangular geometry.
public	<a href="#">MixingProtocol(java.lang.String geometry)</a> Construct a new protocol that applies to the given geometry.

## Method Summary

void	<a href="#">addStep(MixingStep step)</a> Adds the mixing step step to the end of the current program.
static <a href="#">MixingProtocol</a>	<a href="#">fromString(java.lang.String protocol)</a> Converts a string to a mixing protocol.
java.lang.String	<a href="#">getGeometry()</a> Returns the long name of the geometry this protocol is defined for.
java.util.ArrayList	<a href="#">getProgram()</a> Returns all the current steps in the protocol.
int	<a href="#">getProgramSize()</a> Returns the number of steps in the protocol.
<a href="#">MixingStep</a>	<a href="#">getStep(int index)</a> Returns the MixingStep located at index index.
void	<a href="#">moveStep(int originalIndex, int newIndex)</a> Moves a single MixingStep from index originalIndex to newIndex.
void	<a href="#">removeStep(int index)</a> Removes a single step from the protocol.
void	<a href="#">setProgram(java.util.ArrayList program)</a> Sets a new protocol.
java.lang.String	<a href="#">toString()</a> Returns a string representation of this protocol.

**Methods inherited from class** `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

## Constructors

### MixingProtocol

```
public MixingProtocol()
```

Construct a new protocol that applies to the rectangular geometry.

### MixingProtocol

```
public MixingProtocol(java.lang.String geometry)
```

Construct a new protocol that applies to the given geometry.

**Parameters:**

`geometry` - The long name of the geometry to which this protocol applies.

## Methods

### getStep

```
public MixingStep getStep(int index)
```

Returns the `MixingStep` located at index `index`.

**Parameters:**

`index` - the index of the element to be returned

**Returns:**

the `MixingStep` located at index `index`

**Throws:**

`IndexOutOfBoundsException` - if `index < 0` or `index >= getProgramSize()`

### addStep

```
public void addStep(MixingStep step)
```

Adds the mixing step to the end of the current program.

**Parameters:**

`step` - the `MixingStep` to be added

**Throws:**

`NullPointerException` - if `step == null`

### moveStep

```
public void moveStep(int originalIndex,  
int newIndex)
```

---

(continued from last page)

Moves a single `MixingStep` from index `originalIndex` to `newIndex`.

**Parameters:**

`originalIndex` - The original index of the `MixingStep`

`newIndex` - The index the `MixingStep` will be moved to

**Throws:**

`IndexOutOfBoundsException` - if `originalIndex < 0` or `newIndex < 0` or `originalIndex >= getProgramSize()` or `newIndex >= getProgramSize()`

---

## removeStep

```
public void removeStep(int index)
```

Removes a single step from the protocol.

**Parameters:**

`index` - the index of the step to be removed

**Throws:**

`IndexOutOfBoundsException` - if `index >= getProgramSize()` or `index < 0`

---

## getProgramSize

```
public int getProgramSize()
```

Returns the number of steps in the protocol.

**Returns:**

the size of the program; i.e. the number of steps in it

---

## getProgram

```
public java.util.ArrayList getProgram()
```

Returns all the current steps in the protocol.

**Returns:**

An array list containing all current steps

---

## setProgram

```
public void setProgram(java.util.ArrayList program)
```

Sets a new protocol.

**Parameters:**

`program` - The list of mixing steps to set as the current protocol

---

## getGeometry

```
public java.lang.String getGeometry()
```

Returns the long name of the geometry this protocol is defined for.

**Returns:**

The long name of the geometry this protocol is defined for.

---

## toString

```
public java.lang.String toString()
```

Returns a string representation of this protocol.

---

## fromString

```
public static MixingProtocol fromString(java.lang.String protocol)
```

Converts a string to a mixing protocol.

**Parameters:**

protocol - The string to be converted

**Returns:**

A mixing protocol object that matches the given input string

# nl.tue.fingerpaint.shared.model

## Class MixingStep

java.lang.Object

└─nl.tue.fingerpaint.shared.model.MixingStep

### All Implemented Interfaces:

java.io.Serializable

### Direct Known Subclasses:

[RectangleMixingStep](#)

public abstract class **MixingStep**

extends java.lang.Object

implements java.io.Serializable

MixingStep is a class that stores information for an individual mixing step of a mixing protocol

## Field Summary

protected	<a href="#">nrUnits</a> number of times stepUnit time is applied in the mixing step
public static final	<a href="#">STEP_DEFAULT</a> default step size Value: <b>1.0</b>
public static final	<a href="#">STEP_MAX</a> highest allowed step size Value: <b>100.0</b>
public static final	<a href="#">STEP_MIN</a> lowest allowed step size Value: <b>0.25</b>
public static final	<a href="#">STEP_UNIT</a> the minimum step size, all step sizes should be a multiple of this Value: <b>0.25</b>

## Constructor Summary

public	<a href="#">MixingStep()</a> Empty constructor.
--------	--

## Method Summary

abstract void	<a href="#">fromString</a> (java.lang.String string) Sets this step's parameters to those as specified in the string.
abstract java.lang.String	<a href="#">getName</a> () Returns the string representation of this mixing step, as it is needed by the server.

static double	<a href="#">getStepDefault()</a> Returns the default step size of a step.
static double	<a href="#">getStepMax()</a> Returns the maximum step size of a step.
static double	<a href="#">getStepMin()</a> Returns the minimum step size of a step.
double	<a href="#">getStepSize()</a> Returns the size of this step.
static double	<a href="#">getStepUnit()</a> Returns the minimum increment value for the step size.
void	<a href="#">setStepSize(double stepSize)</a> Sets the size of this mixing step.
abstract java.lang.String	<a href="#">toString()</a> Returns the string representation of this mixing step.

#### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Fields

### STEP\_UNIT

public static final double **STEP\_UNIT**

the minimum step size, all step sizes should be a multiple of this  
Constant value: **0.25**

### STEP\_MIN

public static final double **STEP\_MIN**

lowest allowed step size  
Constant value: **0.25**

### STEP\_MAX

public static final double **STEP\_MAX**

highest allowed step size  
Constant value: **100.0**

### STEP\_DEFAULT

public static final double **STEP\_DEFAULT**

default step size  
Constant value: **1.0**



(continued from last page)

## nrUnits

```
protected int nrUnits
```

number of times stepUnit time is applied in the mixing step

## Constructors

### MixingStep

```
public MixingStep()
```

Empty constructor. Necessary for serialising.

## Methods

### getStepSize

```
public double getStepSize()
```

Returns the size of this step.

**Returns:**

result = STEP\_UNIT \* x with x an integer

### setStepSize

```
public void setStepSize(double stepSize)
```

Sets the size of this mixing step. If the precondition does not hold, stepSize will be rounded to produce an integer x.

```
stepSize = STEP_UNIT * x, with x an integer
```

**Parameters:**

stepSize - The time the mixing step is executed for

### getStepUnit

```
public static double getStepUnit()
```

Returns the minimum increment value for the step size.

**Returns:**

STEP\_UNIT

### getStepMin

```
public static double getStepMin()
```

Returns the minimum step size of a step.

**Returns:**

STEP\_MIN

## getStepMax

```
public static double getStepMax()
```

Returns the maximum step size of a step.

**Returns:**

STEP\_MAX

---

## getStepDefault

```
public static double getStepDefault()
```

Returns the default step size of a step.

**Returns:**

STEP\_DEFAULT

---

## getName

```
public abstract java.lang.String getName()
```

Returns the string representation of this mixing step, as it is needed by the server.

**Returns:**

The name of the mixing step

---

## fromString

```
public abstract void fromString(java.lang.String string)
```

Sets this step's parameters to those as specified in the string.

**Parameters:**

string - Textual representation of the step.

---

## toString

```
public abstract java.lang.String toString()
```

Returns the string representation of this mixing step.

**Returns:**

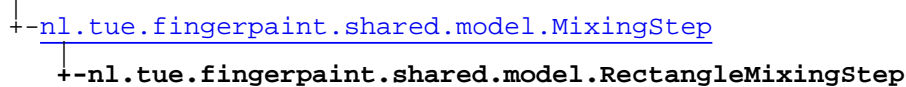
Textual representation of this step.

---

# nl.tue.fingerpaint.shared.model

## Class RectangleMixingStep

java.lang.Object



### All Implemented Interfaces:

java.io.Serializable, java.io.Serializable

```

public class RectangleMixingStep
extends MixingStep
implements java.io.Serializable, java.io.Serializable
  
```

Class for a mixing step for the rectangular geometry.

### Fields inherited from class [nl.tue.fingerpaint.shared.model.MixingStep](#)

[nrUnits](#), [STEP\\_DEFAULT](#), [STEP\\_MAX](#), [STEP\\_MIN](#), [STEP\\_UNIT](#)

## Constructor Summary

public	<a href="#">RectangleMixingStep()</a> Default constructor, necessary for serialisation.
public	<a href="#">RectangleMixingStep(java.lang.String stepRep)</a> Initialises a RectangleMixingStep from a string.
public	<a href="#">RectangleMixingStep(double stepSize, boolean direction, boolean wall)</a> Creates a RectangleMixingStep with the specified parameters.

## Method Summary

void	<a href="#">fromString(java.lang.String step)</a> Sets the parameters of this mixing step to those as specified in step.
java.lang.String	<a href="#">getName()</a>
boolean	<a href="#">isClockwise()</a> Returns the direction of this step.
boolean	<a href="#">isTopWall()</a> Returns the wall this step belongs to.
void	<a href="#">setDirection(boolean direction)</a> Sets the direction of this step.
void	<a href="#">setWall(boolean wall)</a> Sets the wall this step belongs to.
java.lang.String	<a href="#">toString()</a>

### Methods inherited from class [nl.tue.fingerpaint.shared.model.MixingStep](#)

[fromString](#), [getName](#), [getStepDefault](#), [getStepMax](#), [getStepMin](#), [getStepSize](#), [getStepUnit](#), [setStepSize](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

## Constructors

### RectangleMixingStep

```
public RectangleMixingStep()
```

Default constructor, necessary for serialisation.

### RectangleMixingStep

```
public RectangleMixingStep(java.lang.String stepRep)
```

Initialises a RectangleMixingStep from a string.

**Parameters:**

`stepRep` - The textual representation of this mixing step.

### RectangleMixingStep

```
public RectangleMixingStep(double stepSize,  
                           boolean direction,  
                           boolean wall)
```

Creates a RectangleMixingStep with the specified parameters.

**Parameters:**

`stepSize` - The stepSize of the wall movement, should be divisible by 0.25

`direction` - The direction of the wall movement; true is clockwise, false counterclockwise

`wall` - The wall that is moved; true for the top wall, false for the bottom wall

## Methods

### isClockwise

```
public boolean isClockwise()
```

Returns the direction of this step.

**Returns:**

true if the wall is moving clockwise, false otherwise

### setDirection

```
public void setDirection(boolean direction)
```

Sets the direction of this step.

---

(continued from last page)

**Parameters:**

`direction` - The direction the wall moves in, true if clockwise, false otherwise

---

**isTopWall**

```
public boolean isTopWall()
```

Returns the wall this step belongs to.

**Returns:**

true if the top wall moves, false otherwise

---

**setWall**

```
public void setWall(boolean wall)
```

Sets the wall this step belongs to.

**Parameters:**

`wall` - The wall that moves this mixing step, true for the top wall, false for the bottom wall

---

**getName**

```
public java.lang.String getName()
```

Returns the string representation of this mixing step, as it is needed by the server.

---

**toString**

```
public java.lang.String toString()
```

Returns the string representation of this mixing step.

---

**fromString**

```
public void fromString(java.lang.String step)
```

Sets the parameters of this mixing step to those as specified in step.

**Parameters:**

`step` - The string to be converted.

---

---

Package

**nl.tue.fingerpaint.shared.serverdata**

# nl.tue.fingerpaint.shared.serverdata Interface ServerDataService

All Known Implementing Classes:

[ServerDataServiceImpl](#)

---

public interface **ServerDataService**  
extends com.google.gwt.user.client.rpc.RemoteService

Service that is used to obtain data from the server.

---

## Method Summary

[ServerDataResult](#)

[getServerData\(\)](#)

Function to obtain data (geometries, mixers) from the server.

---

## Methods

### getServerData

public [ServerDataResult](#) **getServerData()**

Function to obtain data (geometries, mixers) from the server.

**Returns:**

Result, an object that contains all data from the server.

## nl.tue.fingerpaint.shared.serverdata Interface ServerDataServiceAsync

public interface **ServerDataServiceAsync**  
extends

Asynchronous counterpart of the [ServerDataService](#).

### Method Summary

void	<a href="#">getServerData</a> (com.google.gwt.user.client.rpc.AsyncCallback callback) Asynchronous counterpart of <a href="#">ServerDataService.getServerData()</a> .
------	--

### Methods

#### **getServerData**

public void **getServerData**(com.google.gwt.user.client.rpc.AsyncCallback callback)

Asynchronous counterpart of [ServerDataService.getServerData\(\)](#).

**Parameters:**

callback - Callback that is notified when data comes back from the server.



---

Package

**nl.tue.fingerpaint.shared.simulator**

## nl.tue.fingerpaint.shared.simulator Class Simulation

java.lang.Object

↳nl.tue.fingerpaint.shared.simulator.Simulation

### All Implemented Interfaces:

java.io.Serializable

```
public class Simulation
extends java.lang.Object
implements java.io.Serializable
```

Defines all information necessary for a simulation run. Results are saved into a [SimulationResult](#).

### Constructor Summary

public	<a href="#">Simulation()</a> Default constructor.
public	<a href="#">Simulation</a> (java.lang.String geometry, java.lang.String mixer, <a href="#">MixingProtocol</a> protocol, java.lang.String concentrationVector, int protocolRuns, boolean intermediateVectors) Creates a new SimulatorRequest.

### Method Summary

boolean	<a href="#">calculatesIntermediateVectors()</a>
java.lang.String	<a href="#">getConcentrationVector()</a>
java.lang.String	<a href="#">getMixer()</a>
<a href="#">MixingProtocol</a>	<a href="#">getProtocol()</a>
int	<a href="#">getProtocolRuns()</a>

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Constructors

#### Simulation

```
public Simulation()
```

Default constructor.

---

## Simulation

```
public Simulation(java.lang.String geometry,  
                 java.lang.String mixer,  
                 MixingProtocol protocol,  
                 java.lang.String concentrationVector,  
                 int protocolRuns,  
                 boolean intermediateVectors)
```

Creates a new SimulatorRequest.

### Parameters:

geometry - The chosen geometry.

mixer - The mixer that should be used.

protocol - The name of the step that should be performed.

concentrationVector - The used concentration vector.

protocolRuns - How many times the protocol should be repeated.

intermediateVectors - Whether or not intermediate concentration vectors should be computed for each protocol run.

### Throws:

UnsupportedOperationException - If an unsupported geometry was selected.

## Methods

### getMixer

```
public java.lang.String getMixer()
```

### Returns:

the mixer

---

### getProtocol

```
public MixingProtocol getProtocol()
```

### Returns:

the protocol

---

### getConcentrationVector

```
public java.lang.String getConcentrationVector()
```

### Returns:

the concentrationVector

---

### getProtocolRuns

```
public int getProtocolRuns()
```

(continued from last page)

**Returns:**

the protocolRuns

---

**calculatesIntermediateVectors**

```
public boolean calculatesIntermediateVectors()
```

**Returns:**

the intermediateVectors boolean

# nl.tue.fingerpaint.shared.simulator

## Class SimulationResult

java.lang.Object

↳-nl.tue.fingerpaint.shared.simulator.SimulationResult

### All Implemented Interfaces:

java.io.Serializable

```
public class SimulationResult
extends java.lang.Object
implements java.io.Serializable
```

Represents a the results of a [Simulation](#).

## Constructor Summary

public	<a href="#">SimulationResult()</a> Default constructor.
public	<a href="#">SimulationResult</a> (int[][] concentrationVectors, double[] segregationPoints) Constructs a new SimulationResults of a <a href="#">Simulation</a> .

## Method Summary

int[][]	<a href="#">getConcentrationVectors()</a>
double[]	<a href="#">getSegregationPoints()</a>

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### SimulationResult

```
public SimulationResult()
```

Default constructor.

### SimulationResult

```
public simulationResult(int[][] concentrationVectors,
                        double[] segregationPoints)
```

Constructs a new SimulationResults of a [Simulation](#).

#### Parameters:

(continued from last page)

concentrationVectors - The resulting concentration vectors

segregationPoints - The resulting segregation values

## Methods

### **getConcentrationVectors**

```
public int[][] getConcentrationVectors()
```

**Returns:**

the concentrationVectors

---

### **getSegregationPoints**

```
public double[] getSegregationPoints()
```

**Returns:**

the segregationPoints

# nl.tue.fingerpaint.shared.simulator Interface SimulatorService

All Known Implementing Classes:

[SimulatorServiceImpl](#)

---

public interface **SimulatorService**  
extends [com.google.gwt.user.client.rpc.RemoteService](#)

A service that can be used to run a simulation.

---

## Method Summary

<a href="#">SimulationResult</a>	<a href="#">simulate</a> ( <a href="#">Simulation</a> simulation) Simulates a <a href="#">Simulation</a> and returns the result in a <a href="#">SimulationResult</a> .
----------------------------------	--

---

## Methods

### simulate

public [SimulationResult](#) **simulate**([Simulation](#) simulation)

Simulates a [Simulation](#) and returns the result in a [SimulationResult](#).

**Parameters:**

`simulation` - The simulation to be run

**Returns:**

The result of the simulation

## nl.tue.fingerpaint.shared.simulator Interface SimulatorServiceAsync

public interface **SimulatorServiceAsync**  
extends

A service that can be used to run a simulation.

### Method Summary

void	<code>simulate(Simulation simulation, com.google.gwt.user.client.rpc.AsyncCallback callback)</code> Simulates a <a href="#">Simulation</a> and returns the result in a <a href="#">SimulationResult</a> to the callback.
------	---

### Methods

#### **simulate**

```
public void simulate(Simulation simulation,  
com.google.gwt.user.client.rpc.AsyncCallback callback)
```

Simulates a [Simulation](#) and returns the result in a [SimulationResult](#) to the callback.

#### **Parameters:**

`simulation` - The simulation to be run  
`callback` - The callback to which results are reported



---

Package

**nl.tue.fingerpaint.shared.utils**

## nl.tue.fingerpaint.shared.utils Class Colour

```
java.lang.Object
```

```
└-nl.tue.fingerpaint.shared.utils.Colour
```

```
public class Colour
extends java.lang.Object
```

A Colour is simply ... a colour. It can be used way easier than the default GWT `com.google.gwt.canvas.dom.client.CssColor` though. For example, colours can be compared and the R, G and B values can be queried. Finally, this class provides a way to get a CSS colour representation as a string, just like the `com.google.gwt.canvas.dom.client.CssColor`.

### Field Summary

protected	<a href="#">b</a> The blue component of this colour.
public static final	<a href="#">BLACK</a> Black colour.
public static final	<a href="#">DARK_GRAY</a> Dark gray colour.
protected	<a href="#">g</a> The green component of this colour.
public static final	<a href="#">GRAY</a> Gray colour.
public static final	<a href="#">LIGHT_GRAY</a> Light gray colour.
public static final	<a href="#">PMS_3135</a> TUE support colour: blue-ish colour.
public static final	<a href="#">PMS_375</a> TUE support colour: green colour.
public static final	<a href="#">PMS_396</a> TUE support colour: light green colour.
public static final	<a href="#">PMS_GREEN</a> TUE support colour: aqua-ish colour.
public static final	<a href="#">PMS_GREEN_LIGHTER</a> Lighter version of <a href="#">PMS_GREEN</a> .
public static final	<a href="#">PMS_WARM_RED</a> TUE red colour.
protected	<a href="#">r</a> The red component of this colour.

public static final	<a href="#">TUE_BLUE</a> TUE blue colour.
public static final	<a href="#">TUE_DARK_BLUE</a> TUE dark blue colour.
public static final	<a href="#">TUE_LIGHT_BLUE</a> TUE light blue colour.
public static final	<a href="#">TUE_PURPLE</a> TUE pink colour.
public static final	<a href="#">WHITE</a> White colour.
public static final	<a href="#">WHITE_GRAYISH</a> Near-white gray colour.

## Constructor Summary

public	<a href="#">Colour</a> (int r, int g, int b) Construct a new colour with the given RGB components.
--------	---

## Method Summary

boolean	<a href="#">equals</a> (java.lang.Object obj) Compares this Colour to an other object.
int	<a href="#">getBlue</a> ()
int	<a href="#">getGreen</a> ()
int	<a href="#">getRed</a> ()
int	<a href="#">hashCode</a> () Converts the colour to a hexadecimal code.
static java.lang.String	<a href="#">pad</a> (java.lang.String str, int len) Pad string to given length with zeroes.
void	<a href="#">setBlue</a> (int b)
void	<a href="#">setGreen</a> (int g)
void	<a href="#">setRed</a> (int r)
java.lang.String	<a href="#">toHexString</a> () Return a hexadecimal representation of this colour, that can directly be used in CSS.
java.lang.String	<a href="#">toString</a> () Returns the hexadecimal representation of this colour as a String.

## Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

## Fields

### **WHITE**

```
public static final nl.tue.fingerpaint.shared.utils.Colour WHITE
```

White colour.

### **WHITE\_GRAYISH**

```
public static final nl.tue.fingerpaint.shared.utils.Colour WHITE_GRAYISH
```

Near-white gray colour.

### **LIGHT\_GRAY**

```
public static final nl.tue.fingerpaint.shared.utils.Colour LIGHT_GRAY
```

Light gray colour.

### **GRAY**

```
public static final nl.tue.fingerpaint.shared.utils.Colour GRAY
```

Gray colour.

### **DARK\_GRAY**

```
public static final nl.tue.fingerpaint.shared.utils.Colour DARK_GRAY
```

Dark gray colour.

### **BLACK**

```
public static final nl.tue.fingerpaint.shared.utils.Colour BLACK
```

Black colour.

### **TUE\_PURPLE**

```
public static final nl.tue.fingerpaint.shared.utils.Colour TUE_PURPLE
```

TUe pink colour.

### **TUE\_LIGHT\_BLUE**

```
public static final nl.tue.fingerpaint.shared.utils.Colour TUE_LIGHT_BLUE
```

TUe light blue colour.

(continued from last page)

---

## **TUE\_BLUE**

```
public static final nl.tue.fingerpaint.shared.utils.Colour TUE_BLUE
```

TUe blue colour.

---

## **TUE\_DARK\_BLUE**

```
public static final nl.tue.fingerpaint.shared.utils.Colour TUE_DARK_BLUE
```

TUe dark blue colour.

---

## **PMS\_GREEN**

```
public static final nl.tue.fingerpaint.shared.utils.Colour PMS_GREEN
```

TUe support colour: aqua-ish colour.

---

## **PMS\_GREEN\_LIGHTER**

```
public static final nl.tue.fingerpaint.shared.utils.Colour PMS_GREEN_LIGHTER
```

Lighter version of [PMS\\_GREEN](#).

---

## **PMS\_3135**

```
public static final nl.tue.fingerpaint.shared.utils.Colour PMS_3135
```

TUe support colour: blue-ish colour.

---

## **PMS\_375**

```
public static final nl.tue.fingerpaint.shared.utils.Colour PMS_375
```

TUe support colour: green colour.

---

## **PMS\_396**

```
public static final nl.tue.fingerpaint.shared.utils.Colour PMS_396
```

TUe support colour: light green colour.

---

## **PMS\_WARM\_RED**

```
public static final nl.tue.fingerpaint.shared.utils.Colour PMS_WARM_RED
```

TUe red colour.

---

## **r**

```
protected int r
```

The red component of this colour.

---

## **g**

```
protected int g
```

---

---

(continued from last page)

The green component of this colour.

---

## **b**

```
protected int b
```

The blue component of this colour.

## Constructors

### **Colour**

```
public Colour(int r,  
              int g,  
              int b)
```

Construct a new colour with the given RGB components.

#### **Parameters:**

- r - The red component for the colour.
- g - The green component for the colour.
- b - The blue component for the colour.

## Methods

### **getRed**

```
public int getRed()
```

#### **Returns:**

the red component of this colour

---

### **setRed**

```
public void setRed(int r)
```

#### **Parameters:**

r - the red component of this colour

---

### **getGreen**

```
public int getGreen()
```

#### **Returns:**

the green component of this colour

---

### **setGreen**

```
public void setGreen(int g)
```

#### **Parameters:**

---

(continued from last page)

g - the green component of this colour

---

## getBlue

```
public int getBlue()
```

### Returns:

the blue component of this colour

---

## setBlue

```
public void setBlue(int b)
```

### Parameters:

b - the blue component of this colour

---

## toHexString

```
public java.lang.String toHexString()
```

Return a hexadecimal representation of this colour, that can directly be used in CSS.

### Returns:

a hexadecimal string (with lower case letters)

---

## hashCode

```
public int hashCode()
```

Converts the colour to a hexadecimal code.

### Returns:

the hexadecimal code for the colour.

---

## equals

```
public boolean equals(java.lang.Object obj)
```

Compares this Colour to an other object.

### Returns:

true if this is equal to object, false otherwise.

---

## toString

```
public java.lang.String toString()
```

Returns the hexadecimal representation of this colour as a String.

### Returns:

the hexadecimal representation of this colour as a String.

---

(continued from last page)

**pad**

```
protected static java.lang.String pad(java.lang.String str,  
                                       int len)
```

Pad string to given length with zeroes.

**Parameters:**

`str` - String to pad.

`len` - Wanted length of string.

**Returns:**

Given string, left-padded with zeroes so it has requested length.



# nl.tue.fingerpaint.shared.utils

## Class Utils

java.lang.Object

└─nl.tue.fingerpaint.shared.utils.Utils

```
public class Utils
extends java.lang.Object
```

This class contains a number of static utility functions.

### Constructor Summary

public	<a href="#">Utils()</a>
--------	-------------------------

### Method Summary

static int	<a href="#">parseIntFromCss</a> (java.lang.String css) Parse an integer from a 'Xpx' string, where 'X' is a number.
------------	--

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructors

### Utils

```
public Utils()
```

## Methods

### parseIntFromCss

```
public static int parseIntFromCss(java.lang.String css)
```

Parse an integer from a 'Xpx' string, where 'X' is a number.

#### Parameters:

css - The above-described string.

#### Returns:

The integer from above string, or '-1' on error.