

Introduction

The class **Widget** is the base class for the majority of user-interface objects. Widget adds support for receiving events from the browser and being added directly to panels.

Class declaration

Following is the declaration for **com.google.gwt.user.client.ui.Widget** class:

```
public class Widget
    extends UIObject
    implements EventListener
```

Field

Following are the fields for **com.google.gwt.user.client.ui.Widget** class:

- **public static final java.lang.String DEBUG_ID_PREFIX** -- The element ID that you specify will be prefixed by the static string `DEBUG_ID_PREFIX`.

Class constructors

S.N.	Constructor & Description
1	Widget This creates a Widget for the child classes.

Class methods

S.N.	Method & Description
1	protected <H extends EventHandler> HandlerRegistration addDomHandler <i>Hhandler, DomEvent. Type < H > type</i> Adds a native event handler to the widget and sinks the corresponding native event.
2	protected <H extends EventHandler> HandlerRegistration addHandler <i>Hhandler, GwtEvent. Type < H > type</i> Adds this handler to the widget.
3	protected void delegateEvent <i>Widgettarget, GwtEvent < ? > event</i> Fires an event on a child widget.
4	protected void doAttachChildren If a widget implements HasWidgets, it must override this method and call onAttach for

each of its child widgets.

5

protected void doDetachChildren

If a widget implements HasWidgets, it must override this method and call onDetach for each of its child widgets.

6

void fireEvent*GwtEvent < ? > event*

Fires the given event to all the appropriate handlers.

7

protected int getHandlerCount*GwtEvent. Type < ? > type*

Gets the number of handlers listening to the event type.

8

Widget getParent

Gets this widget's parent panel.

9

boolean isAttached

Determines whether this widget is currently attached to the browser's document *i. e. , thereisanunbrokenchainofwidgetsbetweenthiswidgetandtheunderlyingbrowserdocument.*

10

protected boolean isOrWasAttached

Has this widget ever been attached?

11

protected void onAttach

This method is called when a widget is attached to the browser's document.

12

void onBrowserEvent*Eventevent*

Fired whenever a browser event is received.

13

protected void onDetach

This method is called when a widget is detached from the browser's document.

14

protected void onLoad

Gets a handle to the object's underlying DOM element.

15

protected void onUnload

This method is called immediately before a widget will be detached from the browser's document.

16

void removeFromParent

Removes this widget from its parent widget.

17

void sinkEvents*inteventBitsToAdd*

Overridden to defer the call to super.sinkEvents until the first time this widget is attached to the dom, as a performance enhancement.

Methods inherited

This class inherits methods from the following classes:

com.google.gwt.user.client.ui.Widget