

# GWT - VERTICALPANEL WIDGET

[http://www.tutorialspoint.com/gwt/gwt\\_verticalpanel\\_widget.htm](http://www.tutorialspoint.com/gwt/gwt_verticalpanel_widget.htm)

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## Introduction

The **VerticalPanel** widget represents a panel that lays all of its widgets out in a single vertical row.

## Class declaration

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

```
public class VerticalPanel
    extends CellPanel
    implements HasAlignment, InsertPanel.ForIsWidget
```

## Class constructors

| S.N. | Constructor & Description |
|------|---------------------------|
|------|---------------------------|

- |   |                                                               |
|---|---------------------------------------------------------------|
| 1 | <b>VerticalPanel</b><br>Constructor for empty vertical Panel. |
|---|---------------------------------------------------------------|

## Class methods

| S.N. | Function name & Description |
|------|-----------------------------|
|------|-----------------------------|

- |   |                                                                                                                           |
|---|---------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>void addWidgetw</b><br>Adds a child widget.                                                                            |
| 2 | <b>Has Horizontal Alignment. Horizontal Alignment Constant get Horizontal Alignment</b><br>Gets the horizontal alignment. |
| 3 | <b>HasVerticalAlignment.VerticalAlignmentConstant getVerticalAlignment</b><br>Gets the vertical alignment.                |
| 4 | <b>void insertIsWidgetw, intbeforeIndex</b>                                                                               |
| 5 | <b>void insertWidgetw, intbeforeIndex</b><br>Inserts a child widget before the specified index.                           |
| 6 | <b>protected void onEnsureDebugIdjava. lang. StringbaseID</b>                                                             |

Affected Elements: -# = the cell at the given index.

- 7      **boolean removeWidget**  
Removes a child widget.
- 8      **void set Horizontal Alignment** *HasHorizontalAlignment. HorizontalAlignmentConstantalign*  
Sets the default horizontal alignment to be used for widgets added to this panel.
- 9      **void set Vertical Alignment** *HasVerticalAlignment. VerticalAlignmentConstantalign*  
Sets the default vertical alignment to be used for widgets added to this panel.

## Methods inherited

This class inherits methods from the following classes:

- 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
- java.lang.Object

## VerticalPanel Widget Example

This example will take you through simple steps to show usage of a VerticalPanel Widget in GWT. Follow the following steps to update the GWT application we created in *GWT - Create Application* chapter:

| Step | Description                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Create a project with a name <i>HelloWorld</i> under a package <i>com.tutorialspoint</i> as explained in the <i>GWT - Create Application</i> chapter.              |
| 2    | Modify <i>HelloWorld.gwt.xml</i> , <i>HelloWorld.css</i> , <i>HelloWorld.html</i> and <i>HelloWorld.java</i> as explained below. Keep rest of the files unchanged. |
| 3    | Compile and run the application to verify the result of the implemented logic.                                                                                     |

Following is the content of the modified module descriptor **src/com.tutorialspoint/HelloWorld.gwt.xml**.

```
<?xml version="1.0" encoding="UTF-8"?>
<module rename-to='helloworld'>
  <!-- Inherit the core Web Toolkit stuff. -->
  <inherits name='com.google.gwt.user.User' />

  <!-- Inherit the default GWT style sheet. -->
  <inherits name='com.google.gwt.user.theme.clean.Clean' />
</module>
```

```

<!-- Specify the app entry point class. -->
<entry-point class='com.tutorialspoint.client.HelloWorld' />

<!-- Specify the paths for translatable code -->
<source path='client' />
<source path='shared' />

</module>

```

Following is the content of the modified Style Sheet file **war/HelloWorld.css**.

```

body{
    text-align: center;
    font-family: verdana, sans-serif;
}
h1{
    font-size: 2em;
    font-weight: bold;
    color: #777777;
    margin: 40px 0px 70px;
    text-align: center;
}
.gwt-CheckBox {
    margin: 10px;
}

```

Following is the content of the modified HTML host file **war/HelloWorld.html**.

```

<html>
<head>
<title>Hello World</title>
    <link rel="stylesheet" href="HelloWorld.css"/>
    <script language="javascript" src="helloworld/helloworld.nocache.js">
    </script>
</head>
<body>

<h1>VerticalPanel Widget Demonstration</h1>
<div ></div>

</body>
</html>

```

Let us have following content of Java file **src/com.tutorialspoint/HelloWorld.java** which will demonstrate use of VerticalPanel widget.

```

package com.tutorialspoint.client;

import com.google.gwt.core.client.EntryPoint;
import com.google.gwt.user.client.ui.CheckBox;
import com.google.gwt.user.client.ui.DecoratorPanel;
import com.google.gwt.user.client.ui.VerticalPanel;
import com.google.gwt.user.client.ui.RootPanel;

public class HelloWorld implements EntryPoint {

    public void onModuleLoad() {
        // Create a vertical panel
        VerticalPanel verticalPanel = new VerticalPanel();

        // Add CheckBoxes to vertical Panel
        for(int i = 1; i <= 10; i++){
            CheckBox checkBox = new CheckBox("Item" + i);
            verticalPanel.add(checkBox);
        }

        DecoratorPanel decoratorPanel = new DecoratorPanel();
    }
}

```

```
decoratorPanel.add(verticalPanel);  
  
// Add the widgets to the root panel.  
RootPanel.get().add(decoratorPanel);  
}  
}
```

Once you are ready with all the changes done, let us compile and run the application in development mode as we did in [GWT - Create Application](#) chapter. If everything is fine with your application, this will produce following result:

