

# Class `java.awt.BorderLayout`

```
java.lang.Object
|
+----java.awt.BorderLayout
```

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public class **BorderLayout**  
extends [Object](#)  
implements [LayoutManager](#)

A TNT style border bag layout. It will layout a container using members named "North", "South", "East", "West" and "Center". The "North", "South", "East" and "West" components get layed out according to their preferred sizes and the constraints of the container's size. The "Center" component will get any space left over.

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- o **[BorderLayout\(\)](#)**  
Constructs a new BorderLayout.
- o **[BorderLayout\(int, int\)](#)**  
Constructs a BorderLayout with the specified gaps.

## Method Index

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Adds the specified named component to the layout.
- o **[layoutContainer\(Container\)](#)**  
Lays out the specified container.
- o **[minimumLayoutSize\(Container\)](#)**  
Returns the minimum dimensions needed to layout the components contained in the specified target container.
- o **[preferredLayoutSize\(Container\)](#)**

Returns the preferred dimensions for this layout given the components in the specified target container.

o **removeLayoutComponent**(Component)

Removes the specified component from the layout.

o **toString**()

Returns the String representation of this BorderLayout's values.

## Constructors

o **BorderLayout**

```
public BorderLayout ()
```

Constructs a new BorderLayout.

o **BorderLayout**

```
public BorderLayout (int hgap,  
                    int vgap)
```

Constructs a BorderLayout with the specified gaps.

**Parameters:**

hgap – the horizontal gap

vgap – the vertical gap

## Methods

o **addLayoutComponent**

```
public void addLayoutComponent (String name,  
                                Component comp)
```

Adds the specified named component to the layout.

**Parameters:**

name – the String name

comp – the component to be added

o **removeLayoutComponent**

```
public void removeLayoutComponent (Component comp)
```

Removes the specified component from the layout.

**Parameters:**

comp – the component to be removed

o **minimumLayoutSize**

```
public Dimension minimumLayoutSize (Container target)
```

Returns the minimum dimensions needed to layout the components contained in the specified target container.

**Parameters:**

target – the Container on which to do the layout

**See Also:**

[Container](#), [preferredLayoutSize](#)

## o preferredLayoutSize

```
public Dimension preferredLayoutSize(Container target)
```

Returns the preferred dimensions for this layout given the components in the specified target container.

**Parameters:**

target – the component which needs to be laid out

**See Also:**

[Container](#), [minimumLayoutSize](#)

## o layoutContainer

```
public void layoutContainer(Container target)
```

Lays out the specified container. This method will actually reshape the components in the specified target container in order to satisfy the constraints of the BorderLayout object.

**Parameters:**

target – the component being laid out

**See Also:**

[Container](#)

## o toString

```
public String toString()
```

Returns the String representation of this BorderLayout's values.

**Overrides:**

[toString](#) in class [Object](#)