| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Insets.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
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| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#26in1rg) | [METHOD](#35nkun2) |

## **java.awt**

Class Insets

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.awt.Insets**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html) **Direct Known Subclasses:** [InsetsUIResource](http://docs.google.com/javax/swing/plaf/InsetsUIResource.html)

public class **Insets**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

An Insets object is a representation of the borders of a container. It specifies the space that a container must leave at each of its edges. The space can be a border, a blank space, or a title.

**Since:** JDK1.0 **See Also:**[LayoutManager](http://docs.google.com/java/awt/LayoutManager.html), [Container](http://docs.google.com/java/awt/Container.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.awt.Insets)

| **Field Summary** | |
| --- | --- |
| int | [**bottom**](http://docs.google.com/java/awt/Insets.html#bottom)            The inset from the bottom. |
| int | [**left**](http://docs.google.com/java/awt/Insets.html#left)            The inset from the left. |
| int | [**right**](http://docs.google.com/java/awt/Insets.html#right)            The inset from the right. |
| int | [**top**](http://docs.google.com/java/awt/Insets.html#top)            The inset from the top. |

| **Constructor Summary** | |
| --- | --- |
| [**Insets**](http://docs.google.com/java/awt/Insets.html#Insets(int,%20int,%20int,%20int))(int top, int left, int bottom, int right)            Creates and initializes a new Insets object with the specified top, left, bottom, and right insets. |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**clone**](http://docs.google.com/java/awt/Insets.html#clone())()            Create a copy of this object. |
| boolean | [**equals**](http://docs.google.com/java/awt/Insets.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Checks whether two insets objects are equal. |
| int | [**hashCode**](http://docs.google.com/java/awt/Insets.html#hashCode())()            Returns the hash code for this Insets. |
| void | [**set**](http://docs.google.com/java/awt/Insets.html#set(int,%20int,%20int,%20int))(int top, int left, int bottom, int right)            Set top, left, bottom, and right to the specified values |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/awt/Insets.html#toString())()            Returns a string representation of this Insets object. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Field Detail** |
| --- |

### top

public int **top**

The inset from the top. This value is added to the Top of the rectangle to yield a new location for the Top.

**See Also:**[clone()](http://docs.google.com/java/awt/Insets.html#clone())

### left

public int **left**

The inset from the left. This value is added to the Left of the rectangle to yield a new location for the Left edge.

**See Also:**[clone()](http://docs.google.com/java/awt/Insets.html#clone())

### bottom

public int **bottom**

The inset from the bottom. This value is subtracted from the Bottom of the rectangle to yield a new location for the Bottom.

**See Also:**[clone()](http://docs.google.com/java/awt/Insets.html#clone())

### right

public int **right**

The inset from the right. This value is subtracted from the Right of the rectangle to yield a new location for the Right edge.

**See Also:**[clone()](http://docs.google.com/java/awt/Insets.html#clone())

| **Constructor Detail** |
| --- |

### Insets

public **Insets**(int top,  
 int left,  
 int bottom,  
 int right)

Creates and initializes a new Insets object with the specified top, left, bottom, and right insets.

**Parameters:**top - the inset from the top.left - the inset from the left.bottom - the inset from the bottom.right - the inset from the right.

| **Method Detail** |
| --- |

### set

public void **set**(int top,  
 int left,  
 int bottom,  
 int right)

Set top, left, bottom, and right to the specified values

**Parameters:**top - the inset from the top.left - the inset from the left.bottom - the inset from the bottom.right - the inset from the right.**Since:** 1.5

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Checks whether two insets objects are equal. Two instances of Insets are equal if the four integer values of the fields top, left, bottom, and right are all equal.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**obj - the reference object with which to compare. **Returns:**true if the two insets are equal; otherwise false.**Since:** JDK1.1 **See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

public int **hashCode**()

Returns the hash code for this Insets.

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hash code for this Insets.**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### toString

public [String](http://docs.google.com/java/lang/String.html) **toString**()

Returns a string representation of this Insets object. This method is intended to be used only for debugging purposes, and the content and format of the returned string may vary between implementations. The returned string may be empty but may not be null.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of this Insets object.

### clone

public [Object](http://docs.google.com/java/lang/Object.html) **clone**()

Create a copy of this object.

**Overrides:**[clone](http://docs.google.com/java/lang/Object.html#clone()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a copy of this Insets object.**See Also:**[Cloneable](http://docs.google.com/java/lang/Cloneable.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Insets.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
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[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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