| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SynthStyle.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/swing/plaf/synth/SynthPainter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/synth/SynthStyleFactory.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/synth/SynthStyle.html)    [**NO FRAMES**](http://docs.google.com/SynthStyle.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.swing.plaf.synth**

Class SynthStyle

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.swing.plaf.synth.SynthStyle**

public abstract class **SynthStyle**extends [Object](http://docs.google.com/java/lang/Object.html)

SynthStyle is a set of style properties. Each SynthUI references at least one SynthStyle that is obtained using a SynthStyleFactory. You typically don't need to interact with this class directly, rather you will load a [Synth File Format file](http://docs.google.com/doc-files/synthFileFormat.html) into SynthLookAndFeel that will create a set of SynthStyles.

**Since:** 1.5 **See Also:**[SynthLookAndFeel](http://docs.google.com/javax/swing/plaf/synth/SynthLookAndFeel.html), [SynthStyleFactory](http://docs.google.com/javax/swing/plaf/synth/SynthStyleFactory.html)

| **Constructor Summary** | |
| --- | --- |
| [**SynthStyle**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#SynthStyle())()            Constructs a SynthStyle. |

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**get**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#get(javax.swing.plaf.synth.SynthContext,%20java.lang.Object))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context, [Object](http://docs.google.com/java/lang/Object.html) key)            Getter for a region specific style property. |
| boolean | [**getBoolean**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getBoolean(javax.swing.plaf.synth.SynthContext,%20java.lang.Object,%20boolean))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context, [Object](http://docs.google.com/java/lang/Object.html) key, boolean defaultValue)            Convenience method to get a specific style property whose value is an Boolean. |
| [Color](http://docs.google.com/java/awt/Color.html) | [**getColor**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getColor(javax.swing.plaf.synth.SynthContext,%20javax.swing.plaf.synth.ColorType))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context, [ColorType](http://docs.google.com/javax/swing/plaf/synth/ColorType.html) type)            Returns the color for the specified state. |
| protected abstract  [Color](http://docs.google.com/java/awt/Color.html) | [**getColorForState**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getColorForState(javax.swing.plaf.synth.SynthContext,%20javax.swing.plaf.synth.ColorType))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context, [ColorType](http://docs.google.com/javax/swing/plaf/synth/ColorType.html) type)            Returns the color for the specified state. |
| [Font](http://docs.google.com/java/awt/Font.html) | [**getFont**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getFont(javax.swing.plaf.synth.SynthContext))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)            Returns the Font for the specified state. |
| protected abstract  [Font](http://docs.google.com/java/awt/Font.html) | [**getFontForState**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getFontForState(javax.swing.plaf.synth.SynthContext))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)            Returns the font for the specified state. |
| [SynthGraphicsUtils](http://docs.google.com/javax/swing/plaf/synth/SynthGraphicsUtils.html) | [**getGraphicsUtils**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getGraphicsUtils(javax.swing.plaf.synth.SynthContext))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)            Returns the SynthGraphicUtils for the specified context. |
| [Icon](http://docs.google.com/javax/swing/Icon.html) | [**getIcon**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getIcon(javax.swing.plaf.synth.SynthContext,%20java.lang.Object))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context, [Object](http://docs.google.com/java/lang/Object.html) key)            Convenience method to get a specific style property whose value is an Icon. |
| [Insets](http://docs.google.com/java/awt/Insets.html) | [**getInsets**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getInsets(javax.swing.plaf.synth.SynthContext,%20java.awt.Insets))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context, [Insets](http://docs.google.com/java/awt/Insets.html) insets)            Returns the Insets that are used to calculate sizing information. |
| int | [**getInt**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getInt(javax.swing.plaf.synth.SynthContext,%20java.lang.Object,%20int))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context, [Object](http://docs.google.com/java/lang/Object.html) key, int defaultValue)            Convenience method to get a specific style property whose value is a Number. |
| [SynthPainter](http://docs.google.com/javax/swing/plaf/synth/SynthPainter.html) | [**getPainter**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getPainter(javax.swing.plaf.synth.SynthContext))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)            Returns the SynthPainter that will be used for painting. |
| [String](http://docs.google.com/java/lang/String.html) | [**getString**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getString(javax.swing.plaf.synth.SynthContext,%20java.lang.Object,%20java.lang.String))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context, [Object](http://docs.google.com/java/lang/Object.html) key, [String](http://docs.google.com/java/lang/String.html) defaultValue)            Convenience method to get a specific style property whose value is a String. |
| void | [**installDefaults**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#installDefaults(javax.swing.plaf.synth.SynthContext))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)            Installs the necessary state from this Style on the JComponent from context. |
| boolean | [**isOpaque**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#isOpaque(javax.swing.plaf.synth.SynthContext))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)            Returns true if the region is opaque. |
| void | [**uninstallDefaults**](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#uninstallDefaults(javax.swing.plaf.synth.SynthContext))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)            Uninstalls any state that this style installed on the JComponent from context. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [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)) |

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

### SynthStyle

public **SynthStyle**()

Constructs a SynthStyle.

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

### getGraphicsUtils

public [SynthGraphicsUtils](http://docs.google.com/javax/swing/plaf/synth/SynthGraphicsUtils.html) **getGraphicsUtils**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)

Returns the SynthGraphicUtils for the specified context.

**Parameters:**context - SynthContext identifying requester **Returns:**SynthGraphicsUtils

### getColor

public [Color](http://docs.google.com/java/awt/Color.html) **getColor**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context,  
 [ColorType](http://docs.google.com/javax/swing/plaf/synth/ColorType.html) type)

Returns the color for the specified state. This gives precedence to foreground and background of the JComponent. If the Color from the JComponent is not appropriate, or not used, this will invoke getColorForState. Subclasses should generally not have to override this, instead override [getColorForState(javax.swing.plaf.synth.SynthContext, javax.swing.plaf.synth.ColorType)](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getColorForState(javax.swing.plaf.synth.SynthContext,%20javax.swing.plaf.synth.ColorType)).

**Parameters:**context - SynthContext identifying requestertype - Type of color being requested. **Returns:**Color

### getColorForState

protected abstract [Color](http://docs.google.com/java/awt/Color.html) **getColorForState**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context,  
 [ColorType](http://docs.google.com/javax/swing/plaf/synth/ColorType.html) type)

Returns the color for the specified state. This should NOT call any methods on the JComponent.

**Parameters:**context - SynthContext identifying requestertype - Type of color being requested. **Returns:**Color to render with

### getFont

public [Font](http://docs.google.com/java/awt/Font.html) **getFont**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)

Returns the Font for the specified state. This redirects to the JComponent from the context as necessary. If this does not redirect to the JComponent [getFontForState(javax.swing.plaf.synth.SynthContext)](http://docs.google.com/javax/swing/plaf/synth/SynthStyle.html#getFontForState(javax.swing.plaf.synth.SynthContext)) is invoked.

**Parameters:**context - SynthContext identifying requester **Returns:**Font to render with

### getFontForState

protected abstract [Font](http://docs.google.com/java/awt/Font.html) **getFontForState**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)

Returns the font for the specified state. This should NOT call any method on the JComponent.

**Parameters:**context - SynthContext identifying requester **Returns:**Font to render with

### getInsets

public [Insets](http://docs.google.com/java/awt/Insets.html) **getInsets**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context,  
 [Insets](http://docs.google.com/java/awt/Insets.html) insets)

Returns the Insets that are used to calculate sizing information.

**Parameters:**context - SynthContext identifying requesterinsets - Insets to place return value in. **Returns:**Sizing Insets.

### getPainter

public [SynthPainter](http://docs.google.com/javax/swing/plaf/synth/SynthPainter.html) **getPainter**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)

Returns the SynthPainter that will be used for painting. This may return null.

**Parameters:**context - SynthContext identifying requester **Returns:**SynthPainter to use

### isOpaque

public boolean **isOpaque**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)

Returns true if the region is opaque.

**Parameters:**context - SynthContext identifying requester **Returns:**true if region is opaque.

### get

public [Object](http://docs.google.com/java/lang/Object.html) **get**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context,  
 [Object](http://docs.google.com/java/lang/Object.html) key)

Getter for a region specific style property.

**Parameters:**context - SynthContext identifying requesterkey - Property being requested. **Returns:**Value of the named property

### installDefaults

public void **installDefaults**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)

Installs the necessary state from this Style on the JComponent from context.

**Parameters:**context - SynthContext identifying component to install properties to.

### uninstallDefaults

public void **uninstallDefaults**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context)

Uninstalls any state that this style installed on the JComponent from context.

Styles should NOT depend upon this being called, in certain cases it may never be called.

**Parameters:**context - SynthContext identifying component to install properties to.

### getInt

public int **getInt**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context,  
 [Object](http://docs.google.com/java/lang/Object.html) key,  
 int defaultValue)

Convenience method to get a specific style property whose value is a Number. If the value is a Number, intValue is returned, otherwise defaultValue is returned.

**Parameters:**context - SynthContext identifying requesterkey - Property being requested.defaultValue - Value to return if the property has not been specified, or is not a Number **Returns:**Value of the named property

### getBoolean

public boolean **getBoolean**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context,  
 [Object](http://docs.google.com/java/lang/Object.html) key,  
 boolean defaultValue)

Convenience method to get a specific style property whose value is an Boolean.

**Parameters:**context - SynthContext identifying requesterkey - Property being requested.defaultValue - Value to return if the property has not been specified, or is not a Boolean **Returns:**Value of the named property

### getIcon

public [Icon](http://docs.google.com/javax/swing/Icon.html) **getIcon**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context,  
 [Object](http://docs.google.com/java/lang/Object.html) key)

Convenience method to get a specific style property whose value is an Icon.

**Parameters:**context - SynthContext identifying requesterkey - Property being requested. **Returns:**Value of the named property, or null if not specified

### getString

public [String](http://docs.google.com/java/lang/String.html) **getString**([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) context,  
 [Object](http://docs.google.com/java/lang/Object.html) key,  
 [String](http://docs.google.com/java/lang/String.html) defaultValue)

Convenience method to get a specific style property whose value is a String.

**Parameters:**context - SynthContext identifying requesterkey - Property being requested.defaultValue - Value to return if the property has not been specified, or is not a String **Returns:**Value of the named property

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SynthStyle.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/swing/plaf/synth/SynthPainter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/plaf/synth/SynthStyleFactory.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/plaf/synth/SynthStyle.html)    [**NO FRAMES**](http://docs.google.com/SynthStyle.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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