| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultFormatterFactory.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/text/DefaultFormatter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/DefaultHighlighter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/DefaultFormatterFactory.html)    [**NO FRAMES**](http://docs.google.com/DefaultFormatterFactory.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#26in1rg) |

## **javax.swing.text**

Class DefaultFormatterFactory

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.swing.JFormattedTextField.AbstractFormatterFactory](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatterFactory.html)  
 **javax.swing.text.DefaultFormatterFactory**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public class **DefaultFormatterFactory**extends [JFormattedTextField.AbstractFormatterFactory](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatterFactory.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

An implementation of JFormattedTextField.AbstractFormatterFactory. DefaultFormatterFactory allows specifying a number of different JFormattedTextField.AbstractFormatters that are to be used. The most important one is the default one (setDefaultFormatter). The default formatter will be used if a more specific formatter could not be found. The following process is used to determine the appropriate formatter to use.

1. Is the passed in value null? Use the null formatter.
2. Does the JFormattedTextField have focus? Use the edit formatter.
3. Otherwise, use the display formatter.
4. If a non-null AbstractFormatter has not been found, use the default formatter.

The following code shows how to configure a JFormattedTextField with two JFormattedTextField.AbstractFormatters, one for display and one for editing.

JFormattedTextField.AbstractFormatter editFormatter = ...;  
 JFormattedTextField.AbstractFormatter displayFormatter = ...;  
 DefaultFormatterFactory factory = new DefaultFormatterFactory(  
 displayFormatter, displayFormatter, editFormatter);  
 JFormattedTextField tf = new JFormattedTextField(factory);

**Warning:** Serialized objects of this class will not be compatible with future Swing releases. The current serialization support is appropriate for short term storage or RMI between applications running the same version of Swing. As of 1.4, support for long term storage of all JavaBeansTM has been added to the java.beans package. Please see [XMLEncoder](http://docs.google.com/java/beans/XMLEncoder.html).

**Since:** 1.4 **See Also:**[JFormattedTextField](http://docs.google.com/javax/swing/JFormattedTextField.html)

| **Constructor Summary** | |
| --- | --- |
| [**DefaultFormatterFactory**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#DefaultFormatterFactory())() |
| [**DefaultFormatterFactory**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#DefaultFormatterFactory(javax.swing.JFormattedTextField.AbstractFormatter))([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) defaultFormat)            Creates a DefaultFormatterFactory with the specified JFormattedTextField.AbstractFormatter. |
| [**DefaultFormatterFactory**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#DefaultFormatterFactory(javax.swing.JFormattedTextField.AbstractFormatter,%20javax.swing.JFormattedTextField.AbstractFormatter))([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) defaultFormat, [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) displayFormat)            Creates a DefaultFormatterFactory with the specified JFormattedTextField.AbstractFormatters. |
| [**DefaultFormatterFactory**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#DefaultFormatterFactory(javax.swing.JFormattedTextField.AbstractFormatter,%20javax.swing.JFormattedTextField.AbstractFormatter,%20javax.swing.JFormattedTextField.AbstractFormatter))([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) defaultFormat, [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) displayFormat, [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) editFormat)            Creates a DefaultFormatterFactory with the specified JFormattedTextField.AbstractFormatters. |
| [**DefaultFormatterFactory**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#DefaultFormatterFactory(javax.swing.JFormattedTextField.AbstractFormatter,%20javax.swing.JFormattedTextField.AbstractFormatter,%20javax.swing.JFormattedTextField.AbstractFormatter,%20javax.swing.JFormattedTextField.AbstractFormatter))([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) defaultFormat, [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) displayFormat, [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) editFormat, [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) nullFormat)            Creates a DefaultFormatterFactory with the specified JFormattedTextField.AbstractFormatters. |

| **Method Summary** | |
| --- | --- |
| [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) | [**getDefaultFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#getDefaultFormatter())()            Returns the JFormattedTextField.AbstractFormatter to use as a last resort, eg in case a display, edit or null JFormattedTextField.AbstractFormatter has not been specified. |
| [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) | [**getDisplayFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#getDisplayFormatter())()            Returns the JFormattedTextField.AbstractFormatter to use if the JFormattedTextField is not being edited and either the value is not-null, or the value is null and a null formatter has has not been specified. |
| [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) | [**getEditFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#getEditFormatter())()            Returns the JFormattedTextField.AbstractFormatter to use if the JFormattedTextField is being edited and either the value is not-null, or the value is null and a null formatter has has not been specified. |
| [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) | [**getFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#getFormatter(javax.swing.JFormattedTextField))([JFormattedTextField](http://docs.google.com/javax/swing/JFormattedTextField.html) source)            Returns either the default formatter, display formatter, editor formatter or null formatter based on the state of the JFormattedTextField. |
| [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) | [**getNullFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#getNullFormatter())()            Returns the formatter to use if the value is null. |
| void | [**setDefaultFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#setDefaultFormatter(javax.swing.JFormattedTextField.AbstractFormatter))([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) atf)            Sets the JFormattedTextField.AbstractFormatter to use as a last resort, eg in case a display, edit or null JFormattedTextField.AbstractFormatter has not been specified. |
| void | [**setDisplayFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#setDisplayFormatter(javax.swing.JFormattedTextField.AbstractFormatter))([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) atf)            Sets the JFormattedTextField.AbstractFormatter to use if the JFormattedTextField is not being edited and either the value is not-null, or the value is null and a null formatter has has not been specified. |
| void | [**setEditFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#setEditFormatter(javax.swing.JFormattedTextField.AbstractFormatter))([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) atf)            Sets the JFormattedTextField.AbstractFormatter to use if the JFormattedTextField is being edited and either the value is not-null, or the value is null and a null formatter has has not been specified. |
| void | [**setNullFormatter**](http://docs.google.com/javax/swing/text/DefaultFormatterFactory.html#setNullFormatter(javax.swing.JFormattedTextField.AbstractFormatter))([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) atf)            Sets the formatter to use if the value of the JFormattedTextField is null. |

| **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** |
| --- |

### DefaultFormatterFactory

public **DefaultFormatterFactory**()

### DefaultFormatterFactory

public **DefaultFormatterFactory**([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) defaultFormat)

Creates a DefaultFormatterFactory with the specified JFormattedTextField.AbstractFormatter.

**Parameters:**defaultFormat - JFormattedTextField.AbstractFormatter to be used if a more specific JFormattedTextField.AbstractFormatter can not be found.

### DefaultFormatterFactory

public **DefaultFormatterFactory**([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) defaultFormat,  
 [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) displayFormat)

Creates a DefaultFormatterFactory with the specified JFormattedTextField.AbstractFormatters.

**Parameters:**defaultFormat - JFormattedTextField.AbstractFormatter to be used if a more specific JFormattedTextField.AbstractFormatter can not be found.displayFormat - JFormattedTextField.AbstractFormatter to be used when the JFormattedTextField does not have focus.

### DefaultFormatterFactory

public **DefaultFormatterFactory**([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) defaultFormat,  
 [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) displayFormat,  
 [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) editFormat)

Creates a DefaultFormatterFactory with the specified JFormattedTextField.AbstractFormatters.

**Parameters:**defaultFormat - JFormattedTextField.AbstractFormatter to be used if a more specific JFormattedTextField.AbstractFormatter can not be found.displayFormat - JFormattedTextField.AbstractFormatter to be used when the JFormattedTextField does not have focus.editFormat - JFormattedTextField.AbstractFormatter to be used when the JFormattedTextField has focus.

### DefaultFormatterFactory

public **DefaultFormatterFactory**([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) defaultFormat,  
 [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) displayFormat,  
 [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) editFormat,  
 [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) nullFormat)

Creates a DefaultFormatterFactory with the specified JFormattedTextField.AbstractFormatters.

**Parameters:**defaultFormat - JFormattedTextField.AbstractFormatter to be used if a more specific JFormattedTextField.AbstractFormatter can not be found.displayFormat - JFormattedTextField.AbstractFormatter to be used when the JFormattedTextField does not have focus.editFormat - JFormattedTextField.AbstractFormatter to be used when the JFormattedTextField has focus.nullFormat - JFormattedTextField.AbstractFormatter to be used when the JFormattedTextField has a null value.

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

### setDefaultFormatter

public void **setDefaultFormatter**([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) atf)

Sets the JFormattedTextField.AbstractFormatter to use as a last resort, eg in case a display, edit or null JFormattedTextField.AbstractFormatter has not been specified.

**Parameters:**atf - JFormattedTextField.AbstractFormatter used if a more specific is not specified

### getDefaultFormatter

public [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) **getDefaultFormatter**()

Returns the JFormattedTextField.AbstractFormatter to use as a last resort, eg in case a display, edit or null JFormattedTextField.AbstractFormatter has not been specified.

**Returns:**JFormattedTextField.AbstractFormatter used if a more specific one is not specified.

### setDisplayFormatter

public void **setDisplayFormatter**([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) atf)

Sets the JFormattedTextField.AbstractFormatter to use if the JFormattedTextField is not being edited and either the value is not-null, or the value is null and a null formatter has has not been specified.

**Parameters:**atf - JFormattedTextField.AbstractFormatter to use when the JFormattedTextField does not have focus

### getDisplayFormatter

public [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) **getDisplayFormatter**()

Returns the JFormattedTextField.AbstractFormatter to use if the JFormattedTextField is not being edited and either the value is not-null, or the value is null and a null formatter has has not been specified.

**Returns:**JFormattedTextField.AbstractFormatter to use when the JFormattedTextField does not have focus

### setEditFormatter

public void **setEditFormatter**([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) atf)

Sets the JFormattedTextField.AbstractFormatter to use if the JFormattedTextField is being edited and either the value is not-null, or the value is null and a null formatter has has not been specified.

**Parameters:**atf - JFormattedTextField.AbstractFormatter to use when the component has focus

### getEditFormatter

public [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) **getEditFormatter**()

Returns the JFormattedTextField.AbstractFormatter to use if the JFormattedTextField is being edited and either the value is not-null, or the value is null and a null formatter has has not been specified.

**Returns:**JFormattedTextField.AbstractFormatter to use when the component has focus

### setNullFormatter

public void **setNullFormatter**([JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) atf)

Sets the formatter to use if the value of the JFormattedTextField is null.

**Parameters:**atf - JFormattedTextField.AbstractFormatter to use when the value of the JFormattedTextField is null.

### getNullFormatter

public [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) **getNullFormatter**()

Returns the formatter to use if the value is null.

**Returns:**JFormattedTextField.AbstractFormatter to use when the value is null

### getFormatter

public [JFormattedTextField.AbstractFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatter.html) **getFormatter**([JFormattedTextField](http://docs.google.com/javax/swing/JFormattedTextField.html) source)

Returns either the default formatter, display formatter, editor formatter or null formatter based on the state of the JFormattedTextField.

**Specified by:**[getFormatter](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatterFactory.html#getFormatter(javax.swing.JFormattedTextField)) in class [JFormattedTextField.AbstractFormatterFactory](http://docs.google.com/javax/swing/JFormattedTextField.AbstractFormatterFactory.html) **Parameters:**source - JFormattedTextField requesting JFormattedTextField.AbstractFormatter **Returns:**JFormattedTextField.AbstractFormatter to handle formatting duties.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DefaultFormatterFactory.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/text/DefaultFormatter.html)   [**NEXT CLASS**](http://docs.google.com/javax/swing/text/DefaultHighlighter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/swing/text/DefaultFormatterFactory.html)    [**NO FRAMES**](http://docs.google.com/DefaultFormatterFactory.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#26in1rg) |

[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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