| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InputMethodHighlight.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/java/awt/im/InputContext.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/im/InputMethodRequests.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/im/InputMethodHighlight.html)    [**NO FRAMES**](http://docs.google.com/InputMethodHighlight.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#35nkun2) | [METHOD](#z337ya) |

## **java.awt.im**

Class InputMethodHighlight

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

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

An InputMethodHighlight is used to describe the highlight attributes of text being composed. The description can be at two levels: at the abstract level it specifies the conversion state and whether the text is selected; at the concrete level it specifies style attributes used to render the highlight. An InputMethodHighlight must provide the description at the abstract level; it may or may not provide the description at the concrete level. If no concrete style is provided, a renderer should use [Toolkit.mapInputMethodHighlight(java.awt.im.InputMethodHighlight)](http://docs.google.com/java/awt/Toolkit.html#mapInputMethodHighlight(java.awt.im.InputMethodHighlight)) to map to a concrete style.

The abstract description consists of three fields: selected, state, and variation. selected indicates whether the text range is the one that the input method is currently working on, for example, the segment for which conversion candidates are currently shown in a menu. state represents the conversion state. State values are defined by the input method framework and should be distinguished in all mappings from abstract to concrete styles. Currently defined state values are raw (unconverted) and converted. These state values are recommended for use before and after the main conversion step of text composition, say, before and after kana->kanji or pinyin->hanzi conversion. The variation field allows input methods to express additional information about the conversion results.

InputMethodHighlight instances are typically used as attribute values returned from AttributedCharacterIterator for the INPUT\_METHOD\_HIGHLIGHT attribute. They may be wrapped into [Annotation](http://docs.google.com/java/text/Annotation.html) instances to indicate separate text segments.

**Since:** 1.2 **See Also:**[AttributedCharacterIterator](http://docs.google.com/java/text/AttributedCharacterIterator.html)

| **Field Summary** | |
| --- | --- |
| static int | [**CONVERTED\_TEXT**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#CONVERTED_TEXT)            Constant for the converted text state. |
| static int | [**RAW\_TEXT**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#RAW_TEXT)            Constant for the raw text state. |
| static [InputMethodHighlight](http://docs.google.com/java/awt/im/InputMethodHighlight.html) | [**SELECTED\_CONVERTED\_TEXT\_HIGHLIGHT**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#SELECTED_CONVERTED_TEXT_HIGHLIGHT)            Constant for the default highlight for selected converted text. |
| static [InputMethodHighlight](http://docs.google.com/java/awt/im/InputMethodHighlight.html) | [**SELECTED\_RAW\_TEXT\_HIGHLIGHT**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#SELECTED_RAW_TEXT_HIGHLIGHT)            Constant for the default highlight for selected raw text. |
| static [InputMethodHighlight](http://docs.google.com/java/awt/im/InputMethodHighlight.html) | [**UNSELECTED\_CONVERTED\_TEXT\_HIGHLIGHT**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#UNSELECTED_CONVERTED_TEXT_HIGHLIGHT)            Constant for the default highlight for unselected converted text. |
| static [InputMethodHighlight](http://docs.google.com/java/awt/im/InputMethodHighlight.html) | [**UNSELECTED\_RAW\_TEXT\_HIGHLIGHT**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#UNSELECTED_RAW_TEXT_HIGHLIGHT)            Constant for the default highlight for unselected raw text. |

| **Constructor Summary** | |
| --- | --- |
| [**InputMethodHighlight**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#InputMethodHighlight(boolean,%20int))(boolean selected, int state)            Constructs an input method highlight record. |
| [**InputMethodHighlight**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#InputMethodHighlight(boolean,%20int,%20int))(boolean selected, int state, int variation)            Constructs an input method highlight record. |
| [**InputMethodHighlight**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#InputMethodHighlight(boolean,%20int,%20int,%20java.util.Map))(boolean selected, int state, int variation, [Map](http://docs.google.com/java/util/Map.html)<[TextAttribute](http://docs.google.com/java/awt/font/TextAttribute.html),?> style)            Constructs an input method highlight record. |

| **Method Summary** | |
| --- | --- |
| int | [**getState**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#getState())()            Returns the conversion state of the text range. |
| [Map](http://docs.google.com/java/util/Map.html)<[TextAttribute](http://docs.google.com/java/awt/font/TextAttribute.html),?> | [**getStyle**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#getStyle())()            Returns the rendering style attributes for the text range, or null. |
| int | [**getVariation**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#getVariation())()            Returns the variation of the text range. |
| boolean | [**isSelected**](http://docs.google.com/java/awt/im/InputMethodHighlight.html#isSelected())()            Returns whether the text range is selected. |

| **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)) |

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

### RAW\_TEXT

public static final int **RAW\_TEXT**

Constant for the raw text state.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.im.InputMethodHighlight.RAW_TEXT)

### CONVERTED\_TEXT

public static final int **CONVERTED\_TEXT**

Constant for the converted text state.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.awt.im.InputMethodHighlight.CONVERTED_TEXT)

### UNSELECTED\_RAW\_TEXT\_HIGHLIGHT

public static final [InputMethodHighlight](http://docs.google.com/java/awt/im/InputMethodHighlight.html) **UNSELECTED\_RAW\_TEXT\_HIGHLIGHT**

Constant for the default highlight for unselected raw text.

### SELECTED\_RAW\_TEXT\_HIGHLIGHT

public static final [InputMethodHighlight](http://docs.google.com/java/awt/im/InputMethodHighlight.html) **SELECTED\_RAW\_TEXT\_HIGHLIGHT**

Constant for the default highlight for selected raw text.

### UNSELECTED\_CONVERTED\_TEXT\_HIGHLIGHT

public static final [InputMethodHighlight](http://docs.google.com/java/awt/im/InputMethodHighlight.html) **UNSELECTED\_CONVERTED\_TEXT\_HIGHLIGHT**

Constant for the default highlight for unselected converted text.

### SELECTED\_CONVERTED\_TEXT\_HIGHLIGHT

public static final [InputMethodHighlight](http://docs.google.com/java/awt/im/InputMethodHighlight.html) **SELECTED\_CONVERTED\_TEXT\_HIGHLIGHT**

Constant for the default highlight for selected converted text.

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

### InputMethodHighlight

public **InputMethodHighlight**(boolean selected,  
 int state)

Constructs an input method highlight record. The variation is set to 0, the style to null.

**Parameters:**selected - Whether the text range is selectedstate - The conversion state for the text range - RAW\_TEXT or CONVERTED\_TEXT **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if a state other than RAW\_TEXT or CONVERTED\_TEXT is given**See Also:**[RAW\_TEXT](http://docs.google.com/java/awt/im/InputMethodHighlight.html#RAW_TEXT), [CONVERTED\_TEXT](http://docs.google.com/java/awt/im/InputMethodHighlight.html#CONVERTED_TEXT)

### InputMethodHighlight

public **InputMethodHighlight**(boolean selected,  
 int state,  
 int variation)

Constructs an input method highlight record. The style is set to null.

**Parameters:**selected - Whether the text range is selectedstate - The conversion state for the text range - RAW\_TEXT or CONVERTED\_TEXTvariation - The style variation for the text range **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if a state other than RAW\_TEXT or CONVERTED\_TEXT is given**See Also:**[RAW\_TEXT](http://docs.google.com/java/awt/im/InputMethodHighlight.html#RAW_TEXT), [CONVERTED\_TEXT](http://docs.google.com/java/awt/im/InputMethodHighlight.html#CONVERTED_TEXT)

### InputMethodHighlight

public **InputMethodHighlight**(boolean selected,  
 int state,  
 int variation,  
 [Map](http://docs.google.com/java/util/Map.html)<[TextAttribute](http://docs.google.com/java/awt/font/TextAttribute.html),?> style)

Constructs an input method highlight record. The style attributes map provided must be unmodifiable.

**Parameters:**selected - whether the text range is selectedstate - the conversion state for the text range - RAW\_TEXT or CONVERTED\_TEXTvariation - the variation for the text rangestyle - the rendering style attributes for the text range, or null **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if a state other than RAW\_TEXT or CONVERTED\_TEXT is given**Since:** 1.3 **See Also:**[RAW\_TEXT](http://docs.google.com/java/awt/im/InputMethodHighlight.html#RAW_TEXT), [CONVERTED\_TEXT](http://docs.google.com/java/awt/im/InputMethodHighlight.html#CONVERTED_TEXT)

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

### isSelected

public boolean **isSelected**()

Returns whether the text range is selected.

### getState

public int **getState**()

Returns the conversion state of the text range.

**Returns:**The conversion state for the text range - RAW\_TEXT or CONVERTED\_TEXT.**See Also:**[RAW\_TEXT](http://docs.google.com/java/awt/im/InputMethodHighlight.html#RAW_TEXT), [CONVERTED\_TEXT](http://docs.google.com/java/awt/im/InputMethodHighlight.html#CONVERTED_TEXT)

### getVariation

public int **getVariation**()

Returns the variation of the text range.

### getStyle

public [Map](http://docs.google.com/java/util/Map.html)<[TextAttribute](http://docs.google.com/java/awt/font/TextAttribute.html),?> **getStyle**()

Returns the rendering style attributes for the text range, or null.

**Since:** 1.3

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/InputMethodHighlight.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/java/awt/im/InputContext.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/im/InputMethodRequests.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/im/InputMethodHighlight.html)    [**NO FRAMES**](http://docs.google.com/InputMethodHighlight.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#35nkun2) | [METHOD](#z337ya) |

[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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