| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PaintEvent.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/event/MouseWheelListener.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/TextEvent.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/PaintEvent.html)    [**NO FRAMES**](http://docs.google.com/PaintEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: [FIELD](#lnxbz9) | [CONSTR](#z337ya) | [METHOD](#1y810tw) |

## **java.awt.event**

Class PaintEvent

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.EventObject](http://docs.google.com/java/util/EventObject.html)  
 [java.awt.AWTEvent](http://docs.google.com/java/awt/AWTEvent.html)  
 [java.awt.event.ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html)  
 **java.awt.event.PaintEvent**

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

public class **PaintEvent**extends [ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html)

The component-level paint event. This event is a special type which is used to ensure that paint/update method calls are serialized along with the other events delivered from the event queue. This event is not designed to be used with the Event Listener model; programs should continue to override paint/update methods in order render themselves properly.

**Since:** 1.1 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.awt.event.PaintEvent)

| **Field Summary** | |
| --- | --- |
| static int | [**PAINT**](http://docs.google.com/java/awt/event/PaintEvent.html#PAINT)            The paint event type. |
| static int | [**PAINT\_FIRST**](http://docs.google.com/java/awt/event/PaintEvent.html#PAINT_FIRST)            Marks the first integer id for the range of paint event ids. |
| static int | [**PAINT\_LAST**](http://docs.google.com/java/awt/event/PaintEvent.html#PAINT_LAST)            Marks the last integer id for the range of paint event ids. |
| static int | [**UPDATE**](http://docs.google.com/java/awt/event/PaintEvent.html#UPDATE)            The update event type. |

| **Fields inherited from class java.awt.event.**[**ComponentEvent**](http://docs.google.com/java/awt/event/ComponentEvent.html) |
| --- |
| [COMPONENT\_FIRST](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_FIRST), [COMPONENT\_HIDDEN](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_HIDDEN), [COMPONENT\_LAST](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_LAST), [COMPONENT\_MOVED](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_MOVED), [COMPONENT\_RESIZED](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_RESIZED), [COMPONENT\_SHOWN](http://docs.google.com/java/awt/event/ComponentEvent.html#COMPONENT_SHOWN) |

| **Fields inherited from class java.awt.**[**AWTEvent**](http://docs.google.com/java/awt/AWTEvent.html) |
| --- |
| [ACTION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ACTION_EVENT_MASK), [ADJUSTMENT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ADJUSTMENT_EVENT_MASK), [COMPONENT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#COMPONENT_EVENT_MASK), [consumed](http://docs.google.com/java/awt/AWTEvent.html#consumed), [CONTAINER\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#CONTAINER_EVENT_MASK), [FOCUS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#FOCUS_EVENT_MASK), [HIERARCHY\_BOUNDS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#HIERARCHY_BOUNDS_EVENT_MASK), [HIERARCHY\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#HIERARCHY_EVENT_MASK), [id](http://docs.google.com/java/awt/AWTEvent.html#id), [INPUT\_METHOD\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#INPUT_METHOD_EVENT_MASK), [INVOCATION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#INVOCATION_EVENT_MASK), [ITEM\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#ITEM_EVENT_MASK), [KEY\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#KEY_EVENT_MASK), [MOUSE\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_EVENT_MASK), [MOUSE\_MOTION\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_MOTION_EVENT_MASK), [MOUSE\_WHEEL\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#MOUSE_WHEEL_EVENT_MASK), [PAINT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#PAINT_EVENT_MASK), [RESERVED\_ID\_MAX](http://docs.google.com/java/awt/AWTEvent.html#RESERVED_ID_MAX), [TEXT\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#TEXT_EVENT_MASK), [WINDOW\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_EVENT_MASK), [WINDOW\_FOCUS\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_FOCUS_EVENT_MASK), [WINDOW\_STATE\_EVENT\_MASK](http://docs.google.com/java/awt/AWTEvent.html#WINDOW_STATE_EVENT_MASK) |

| **Fields inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [source](http://docs.google.com/java/util/EventObject.html#source) |

| **Constructor Summary** | |
| --- | --- |
| [**PaintEvent**](http://docs.google.com/java/awt/event/PaintEvent.html#PaintEvent(java.awt.Component,%20int,%20java.awt.Rectangle))([Component](http://docs.google.com/java/awt/Component.html) source, int id, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) updateRect)            Constructs a PaintEvent object with the specified source component and type. |

| **Method Summary** | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | [**getUpdateRect**](http://docs.google.com/java/awt/event/PaintEvent.html#getUpdateRect())()            Returns the rectangle representing the area which needs to be repainted in response to this event. |
| [String](http://docs.google.com/java/lang/String.html) | [**paramString**](http://docs.google.com/java/awt/event/PaintEvent.html#paramString())()            Returns a parameter string identifying this event. |
| void | [**setUpdateRect**](http://docs.google.com/java/awt/event/PaintEvent.html#setUpdateRect(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) updateRect)            Sets the rectangle representing the area which needs to be repainted in response to this event. |

| **Methods inherited from class java.awt.event.**[**ComponentEvent**](http://docs.google.com/java/awt/event/ComponentEvent.html) |
| --- |
| [getComponent](http://docs.google.com/java/awt/event/ComponentEvent.html#getComponent()) |

| **Methods inherited from class java.awt.**[**AWTEvent**](http://docs.google.com/java/awt/AWTEvent.html) |
| --- |
| [consume](http://docs.google.com/java/awt/AWTEvent.html#consume()), [getID](http://docs.google.com/java/awt/AWTEvent.html#getID()), [isConsumed](http://docs.google.com/java/awt/AWTEvent.html#isConsumed()), [setSource](http://docs.google.com/java/awt/AWTEvent.html#setSource(java.lang.Object)), [toString](http://docs.google.com/java/awt/AWTEvent.html#toString()) |

| **Methods inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [getSource](http://docs.google.com/java/util/EventObject.html#getSource()) |

| **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()), [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** |
| --- |

### PAINT\_FIRST

public static final int **PAINT\_FIRST**

Marks the first integer id for the range of paint event ids.

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

### PAINT\_LAST

public static final int **PAINT\_LAST**

Marks the last integer id for the range of paint event ids.

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

### PAINT

public static final int **PAINT**

The paint event type.

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

### UPDATE

public static final int **UPDATE**

The update event type.

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

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

### PaintEvent

public **PaintEvent**([Component](http://docs.google.com/java/awt/Component.html) source,  
 int id,  
 [Rectangle](http://docs.google.com/java/awt/Rectangle.html) updateRect)

Constructs a PaintEvent object with the specified source component and type.

Note that passing in an invalid id results in unspecified behavior. This method throws an IllegalArgumentException if source is null.

**Parameters:**source - the object where the event originatedid - the event typeupdateRect - the rectangle area which needs to be repainted **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if source is null

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

### getUpdateRect

public [Rectangle](http://docs.google.com/java/awt/Rectangle.html) **getUpdateRect**()

Returns the rectangle representing the area which needs to be repainted in response to this event.

### setUpdateRect

public void **setUpdateRect**([Rectangle](http://docs.google.com/java/awt/Rectangle.html) updateRect)

Sets the rectangle representing the area which needs to be repainted in response to this event.

**Parameters:**updateRect - the rectangle area which needs to be repainted

### paramString

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

**Description copied from class:** [**ComponentEvent**](http://docs.google.com/java/awt/event/ComponentEvent.html#paramString()) Returns a parameter string identifying this event. This method is useful for event-logging and for debugging.

**Overrides:**[paramString](http://docs.google.com/java/awt/event/ComponentEvent.html#paramString()) in class [ComponentEvent](http://docs.google.com/java/awt/event/ComponentEvent.html) **Returns:**a string identifying the event and its attributes

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PaintEvent.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/event/MouseWheelListener.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/event/TextEvent.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/event/PaintEvent.html)    [**NO FRAMES**](http://docs.google.com/PaintEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: [FIELD](#lnxbz9) | [CONSTR](#z337ya) | [METHOD](#1y810tw) |

[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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