| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/Rectangle.html) | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/awt//class-useRectangle.html)    [**NO FRAMES**](http://docs.google.com/Rectangle.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.awt.Rectangle**

| Packages that use [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [**java.awt**](#3znysh7) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.event**](#2et92p0) | Provides interfaces and classes for dealing with different types of events fired by AWT components. |
| [**java.awt.font**](#tyjcwt) | Provides classes and interface relating to fonts. |
| [**java.awt.geom**](#3dy6vkm) | Provides the Java 2D classes for defining and performing operations on objects related to two-dimensional geometry. |
| [**java.awt.im**](#1t3h5sf) | Provides classes and interfaces for the input method framework. |
| [**java.awt.im.spi**](#4d34og8) | Provides interfaces that enable the development of input methods that can be used with any Java runtime environment. |
| [**java.awt.image**](#2s8eyo1) | Provides classes for creating and modifying images. |
| [**java.beans**](#17dp8vu) | Contains classes related to developing *beans* -- components based on the JavaBeansTM architecture. |
| [**javax.accessibility**](#3rdcrjn) | Defines a contract between user-interface components and an assistive technology that provides access to those components. |
| [**javax.imageio**](#26in1rg) | The main package of the Java Image I/O API. |
| [**javax.swing**](#lnxbz9) | Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. |
| [**javax.swing.border**](#35nkun2) | Provides classes and interface for drawing specialized borders around a Swing component. |
| [**javax.swing.plaf**](#1ksv4uv) | Provides one interface and many abstract classes that Swing uses to provide its pluggable look-and-feel capabilities. |
| [**javax.swing.plaf.basic**](#44sinio) | Provides user interface objects built according to the Basic look and feel. |
| [**javax.swing.plaf.metal**](#2jxsxqh) | Provides user interface objects built according to the Java look and feel (once codenamed *Metal*), which is the default look and feel. |
| [**javax.swing.plaf.multi**](#z337ya) | Provides user interface objects that combine two or more look and feels. |
| [**javax.swing.plaf.synth**](#3j2qqm3) | Synth is a skinnable look and feel in which all painting is delegated. |
| [**javax.swing.table**](#1y810tw) | Provides classes and interfaces for dealing with javax.swing.JTable. |
| [**javax.swing.text**](#4i7ojhp) | Provides classes and interfaces that deal with editable and noneditable text components. |
| [**javax.swing.text.html**](#2xcytpi) | Provides the class HTMLEditorKit and supporting classes for creating HTML text editors. |
| [**javax.swing.tree**](#1ci93xb) | Provides classes and interfaces for dealing with javax.swing.JTree. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
| --- | --- |

| Fields in [java.awt](http://docs.google.com/java/awt/package-summary.html) declared as [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Polygon.**[**bounds**](http://docs.google.com/java/awt/Polygon.html#bounds)            The bounds of this Polygon. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Component.**[**bounds**](http://docs.google.com/java/awt/Component.html#bounds())()  **Deprecated.** *As of JDK version 1.1, replaced by getBounds().* |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Polygon.**[**getBoundingBox**](http://docs.google.com/java/awt/Polygon.html#getBoundingBox())()  **Deprecated.** *As of JDK version 1.1, replaced by getBounds().* |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **MenuComponent.AccessibleAWTMenuComponent.**[**getBounds**](http://docs.google.com/java/awt/MenuComponent.AccessibleAWTMenuComponent.html#getBounds())()            Gets the bounds of this object in the form of a Rectangle object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **List.AccessibleAWTList.AccessibleAWTListChild.**[**getBounds**](http://docs.google.com/java/awt/List.AccessibleAWTList.AccessibleAWTListChild.html#getBounds())()            Gets the bounds of this object in the form of a Rectangle object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Rectangle.**[**getBounds**](http://docs.google.com/java/awt/Rectangle.html#getBounds())()            Gets the bounding Rectangle of this Rectangle. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **GraphicsConfiguration.**[**getBounds**](http://docs.google.com/java/awt/GraphicsConfiguration.html#getBounds())()            Returns the bounds of the GraphicsConfiguration in the device coordinates. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Component.**[**getBounds**](http://docs.google.com/java/awt/Component.html#getBounds())()            Gets the bounds of this component in the form of a Rectangle object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Component.AccessibleAWTComponent.**[**getBounds**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#getBounds())()            Gets the bounds of this object in the form of a Rectangle object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SplashScreen.**[**getBounds**](http://docs.google.com/java/awt/SplashScreen.html#getBounds())()            Returns the bounds of the splash screen window as a [Rectangle](http://docs.google.com/java/awt/Rectangle.html). |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Polygon.**[**getBounds**](http://docs.google.com/java/awt/Polygon.html#getBounds())()            Gets the bounding box of this Polygon. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Shape.**[**getBounds**](http://docs.google.com/java/awt/Shape.html#getBounds())()            Returns an integer [Rectangle](http://docs.google.com/java/awt/Rectangle.html) that completely encloses the Shape. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Component.**[**getBounds**](http://docs.google.com/java/awt/Component.html#getBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rv)            Stores the bounds of this component into "return value" **rv** and return **rv**. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **TextComponent.AccessibleAWTTextComponent.**[**getCharacterBounds**](http://docs.google.com/java/awt/TextComponent.AccessibleAWTTextComponent.html#getCharacterBounds(int))(int i)            Determines the bounding box of the character at the given index into the string. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Graphics.**[**getClipBounds**](http://docs.google.com/java/awt/Graphics.html#getClipBounds())()            Returns the bounding rectangle of the current clipping area. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Graphics.**[**getClipBounds**](http://docs.google.com/java/awt/Graphics.html#getClipBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Returns the bounding rectangle of the current clipping area. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Graphics.**[**getClipRect**](http://docs.google.com/java/awt/Graphics.html#getClipRect())()  **Deprecated.** *As of JDK version 1.1, replaced by getClipBounds().* |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Frame.**[**getMaximizedBounds**](http://docs.google.com/java/awt/Frame.html#getMaximizedBounds())()            Gets maximized bounds for this frame. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **GraphicsEnvironment.**[**getMaximumWindowBounds**](http://docs.google.com/java/awt/GraphicsEnvironment.html#getMaximumWindowBounds())()            Returns the maximum bounds for centered Windows. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Rectangle.**[**intersection**](http://docs.google.com/java/awt/Rectangle.html#intersection(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Computes the intersection of this Rectangle with the specified Rectangle. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Rectangle.**[**union**](http://docs.google.com/java/awt/Rectangle.html#union(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Computes the union of this Rectangle with the specified Rectangle. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| void | **Rectangle.**[**add**](http://docs.google.com/java/awt/Rectangle.html#add(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Adds a Rectangle to this Rectangle. |
| protected  void | **GridBagLayout.**[**adjustForGravity**](http://docs.google.com/java/awt/GridBagLayout.html#adjustForGravity(java.awt.GridBagConstraints,%20java.awt.Rectangle))([GridBagConstraints](http://docs.google.com/java/awt/GridBagConstraints.html) constraints, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Adjusts the x, y, width, and height fields to the correct values depending on the constraint geometry and pads. |
| protected  void | **GridBagLayout.**[**AdjustForGravity**](http://docs.google.com/java/awt/GridBagLayout.html#AdjustForGravity(java.awt.GridBagConstraints,%20java.awt.Rectangle))([GridBagConstraints](http://docs.google.com/java/awt/GridBagConstraints.html) constraints, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            This method is obsolete and supplied for backwards compatability only; new code should call [adjustForGravity](http://docs.google.com/java/awt/GridBagLayout.html#adjustForGravity(java.awt.GridBagConstraints,%20java.awt.Rectangle)) instead. |
| boolean | **Rectangle.**[**contains**](http://docs.google.com/java/awt/Rectangle.html#contains(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Checks whether or not this Rectangle entirely contains the specified Rectangle. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **LinearGradientPaint.**[**createContext**](http://docs.google.com/java/awt/LinearGradientPaint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) transform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a [PaintContext](http://docs.google.com/java/awt/PaintContext.html) used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **TexturePaint.**[**createContext**](http://docs.google.com/java/awt/TexturePaint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a context used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **SystemColor.**[**createContext**](http://docs.google.com/java/awt/SystemColor.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r2d, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a PaintContext used to generate a solid color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **RadialGradientPaint.**[**createContext**](http://docs.google.com/java/awt/RadialGradientPaint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) transform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a [PaintContext](http://docs.google.com/java/awt/PaintContext.html) used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **GradientPaint.**[**createContext**](http://docs.google.com/java/awt/GradientPaint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a context used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **Paint.**[**createContext**](http://docs.google.com/java/awt/Paint.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) deviceBounds, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) userBounds, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a [PaintContext](http://docs.google.com/java/awt/PaintContext.html) used to generate the color pattern. |
| [PaintContext](http://docs.google.com/java/awt/PaintContext.html) | **Color.**[**createContext**](http://docs.google.com/java/awt/Color.html#createContext(java.awt.image.ColorModel,%20java.awt.Rectangle,%20java.awt.geom.Rectangle2D,%20java.awt.geom.AffineTransform,%20java.awt.RenderingHints))([ColorModel](http://docs.google.com/java/awt/image/ColorModel.html) cm, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r2d, [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) xform, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Creates and returns a [PaintContext](http://docs.google.com/java/awt/PaintContext.html) used to generate a solid color pattern. |
| [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) | **Robot.**[**createScreenCapture**](http://docs.google.com/java/awt/Robot.html#createScreenCapture(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) screenRect)            Creates an image containing pixels read from the screen. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Component.**[**getBounds**](http://docs.google.com/java/awt/Component.html#getBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rv)            Stores the bounds of this component into "return value" **rv** and return **rv**. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Graphics.**[**getClipBounds**](http://docs.google.com/java/awt/Graphics.html#getClipBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Returns the bounding rectangle of the current clipping area. |
| abstract  boolean | **Graphics2D.**[**hit**](http://docs.google.com/java/awt/Graphics2D.html#hit(java.awt.Rectangle,%20java.awt.Shape,%20boolean))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rect, [Shape](http://docs.google.com/java/awt/Shape.html) s, boolean onStroke)            Checks whether or not the specified Shape intersects the specified [Rectangle](http://docs.google.com/java/awt/Rectangle.html), which is in device space. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Rectangle.**[**intersection**](http://docs.google.com/java/awt/Rectangle.html#intersection(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Computes the intersection of this Rectangle with the specified Rectangle. |
| boolean | **Rectangle.**[**intersects**](http://docs.google.com/java/awt/Rectangle.html#intersects(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Determines whether or not this Rectangle and the specified Rectangle intersect. |
| void | **MenuComponent.AccessibleAWTMenuComponent.**[**setBounds**](http://docs.google.com/java/awt/MenuComponent.AccessibleAWTMenuComponent.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Sets the bounds of this object in the form of a Rectangle object. |
| void | **Window.**[**setBounds**](http://docs.google.com/java/awt/Window.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Moves and resizes this component to conform to the new bounding rectangle r. |
| void | **List.AccessibleAWTList.AccessibleAWTListChild.**[**setBounds**](http://docs.google.com/java/awt/List.AccessibleAWTList.AccessibleAWTListChild.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Sets the bounds of this object in the form of a Rectangle object. |
| void | **Rectangle.**[**setBounds**](http://docs.google.com/java/awt/Rectangle.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Sets the bounding Rectangle of this Rectangle to match the specified Rectangle. |
| void | **Component.**[**setBounds**](http://docs.google.com/java/awt/Component.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Moves and resizes this component to conform to the new bounding rectangle r. |
| void | **Component.AccessibleAWTComponent.**[**setBounds**](http://docs.google.com/java/awt/Component.AccessibleAWTComponent.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Sets the bounds of this object in the form of a Rectangle object. |
| void | **Frame.**[**setMaximizedBounds**](http://docs.google.com/java/awt/Frame.html#setMaximizedBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds)            Sets the maximized bounds for this frame. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Rectangle.**[**union**](http://docs.google.com/java/awt/Rectangle.html#union(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Computes the union of this Rectangle with the specified Rectangle. |

| Constructors in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [**Rectangle**](http://docs.google.com/java/awt/Rectangle.html#Rectangle(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Constructs a new Rectangle, initialized to match the values of the specified Rectangle. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [java.awt.event](http://docs.google.com/java/awt/event/package-summary.html) | |
| --- | --- |

| Methods in [java.awt.event](http://docs.google.com/java/awt/event/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **PaintEvent.**[**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. |

| Methods in [java.awt.event](http://docs.google.com/java/awt/event/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| void | **PaintEvent.**[**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. |

| Constructors in [java.awt.event](http://docs.google.com/java/awt/event/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [**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. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [java.awt.font](http://docs.google.com/java/awt/font/package-summary.html) | |
| --- | --- |

| Methods in [java.awt.font](http://docs.google.com/java/awt/font/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **GlyphVector.**[**getGlyphPixelBounds**](http://docs.google.com/java/awt/font/GlyphVector.html#getGlyphPixelBounds(int,%20java.awt.font.FontRenderContext,%20float,%20float))(int index, [FontRenderContext](http://docs.google.com/java/awt/font/FontRenderContext.html) renderFRC, float x, float y)            Returns the pixel bounds of the glyph at index when this GlyphVector is rendered in a Graphics with the given FontRenderContext at the given location. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **TextLayout.**[**getPixelBounds**](http://docs.google.com/java/awt/font/TextLayout.html#getPixelBounds(java.awt.font.FontRenderContext,%20float,%20float))([FontRenderContext](http://docs.google.com/java/awt/font/FontRenderContext.html) frc, float x, float y)            Returns the pixel bounds of this TextLayout when rendered in a graphics with the given FontRenderContext at the given location. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **GlyphVector.**[**getPixelBounds**](http://docs.google.com/java/awt/font/GlyphVector.html#getPixelBounds(java.awt.font.FontRenderContext,%20float,%20float))([FontRenderContext](http://docs.google.com/java/awt/font/FontRenderContext.html) renderFRC, float x, float y)            Returns the pixel bounds of this GlyphVector when rendered in a graphics with the given FontRenderContext at the given location. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) | |
| --- | --- |

| Methods in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **QuadCurve2D.**[**getBounds**](http://docs.google.com/java/awt/geom/QuadCurve2D.html#getBounds())()            Returns an integer [Rectangle](http://docs.google.com/java/awt/Rectangle.html) that completely encloses the Shape. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **CubicCurve2D.**[**getBounds**](http://docs.google.com/java/awt/geom/CubicCurve2D.html#getBounds())()            Returns an integer [Rectangle](http://docs.google.com/java/awt/Rectangle.html) that completely encloses the Shape. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Area.**[**getBounds**](http://docs.google.com/java/awt/geom/Area.html#getBounds())()            Returns a bounding [Rectangle](http://docs.google.com/java/awt/Rectangle.html) that completely encloses this Area. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Path2D.**[**getBounds**](http://docs.google.com/java/awt/geom/Path2D.html#getBounds())()            Returns an integer [Rectangle](http://docs.google.com/java/awt/Rectangle.html) that completely encloses the Shape. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Line2D.**[**getBounds**](http://docs.google.com/java/awt/geom/Line2D.html#getBounds())()            Returns an integer [Rectangle](http://docs.google.com/java/awt/Rectangle.html) that completely encloses the Shape. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **RectangularShape.**[**getBounds**](http://docs.google.com/java/awt/geom/RectangularShape.html#getBounds())()            Returns an integer [Rectangle](http://docs.google.com/java/awt/Rectangle.html) that completely encloses the Shape. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [java.awt.im](http://docs.google.com/java/awt/im/package-summary.html) | |
| --- | --- |

| Methods in [java.awt.im](http://docs.google.com/java/awt/im/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **InputMethodRequests.**[**getTextLocation**](http://docs.google.com/java/awt/im/InputMethodRequests.html#getTextLocation(java.awt.font.TextHitInfo))([TextHitInfo](http://docs.google.com/java/awt/font/TextHitInfo.html) offset)            Gets the location of a specified offset in the current composed text, or of the selection in committed text. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [java.awt.im.spi](http://docs.google.com/java/awt/im/spi/package-summary.html) | |
| --- | --- |

| Methods in [java.awt.im.spi](http://docs.google.com/java/awt/im/spi/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| void | **InputMethod.**[**notifyClientWindowChange**](http://docs.google.com/java/awt/im/spi/InputMethod.html#notifyClientWindowChange(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds)            Notifies this input method of changes in the client window location or state. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
| --- | --- |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **Raster.**[**getBounds**](http://docs.google.com/java/awt/image/Raster.html#getBounds())()            Returns the bounding Rectangle of this Raster. |

| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) | **Raster.**[**createCompatibleWritableRaster**](http://docs.google.com/java/awt/image/Raster.html#createCompatibleWritableRaster(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rect)            Create a compatible WritableRaster with location (minX, minY) and size (width, height) specified by rect, a new SampleModel, and a new initialized DataBuffer. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **BufferedImage.**[**getData**](http://docs.google.com/java/awt/image/BufferedImage.html#getData(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rect)            Computes and returns an arbitrary region of the BufferedImage. |
| [Raster](http://docs.google.com/java/awt/image/Raster.html) | **RenderedImage.**[**getData**](http://docs.google.com/java/awt/image/RenderedImage.html#getData(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rect)            Computes and returns an arbitrary region of the RenderedImage. |

| Constructors in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [**Raster**](http://docs.google.com/java/awt/image/Raster.html#Raster(java.awt.image.SampleModel,%20java.awt.image.DataBuffer,%20java.awt.Rectangle,%20java.awt.Point,%20java.awt.image.Raster))([SampleModel](http://docs.google.com/java/awt/image/SampleModel.html) sampleModel, [DataBuffer](http://docs.google.com/java/awt/image/DataBuffer.html) dataBuffer, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) aRegion, [Point](http://docs.google.com/java/awt/Point.html) sampleModelTranslate, [Raster](http://docs.google.com/java/awt/image/Raster.html) parent)            Constructs a Raster with the given SampleModel, DataBuffer, and parent. |
| [**WritableRaster**](http://docs.google.com/java/awt/image/WritableRaster.html#WritableRaster(java.awt.image.SampleModel,%20java.awt.image.DataBuffer,%20java.awt.Rectangle,%20java.awt.Point,%20java.awt.image.WritableRaster))([SampleModel](http://docs.google.com/java/awt/image/SampleModel.html) sampleModel, [DataBuffer](http://docs.google.com/java/awt/image/DataBuffer.html) dataBuffer, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) aRegion, [Point](http://docs.google.com/java/awt/Point.html) sampleModelTranslate, [WritableRaster](http://docs.google.com/java/awt/image/WritableRaster.html) parent)            Constructs a WritableRaster with the given SampleModel, DataBuffer, and parent. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [java.beans](http://docs.google.com/java/beans/package-summary.html) | |
| --- | --- |

| Methods in [java.beans](http://docs.google.com/java/beans/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| void | **PropertyEditorSupport.**[**paintValue**](http://docs.google.com/java/beans/PropertyEditorSupport.html#paintValue(java.awt.Graphics,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) gfx, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) box)            Paint a representation of the value into a given area of screen real estate. |
| void | **PropertyEditor.**[**paintValue**](http://docs.google.com/java/beans/PropertyEditor.html#paintValue(java.awt.Graphics,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) gfx, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) box)            Paint a representation of the value into a given area of screen real estate. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.accessibility](http://docs.google.com/javax/accessibility/package-summary.html) | |
| --- | --- |

| Methods in [javax.accessibility](http://docs.google.com/javax/accessibility/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AccessibleComponent.**[**getBounds**](http://docs.google.com/javax/accessibility/AccessibleComponent.html#getBounds())()            Gets the bounds of this object in the form of a Rectangle object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AccessibleText.**[**getCharacterBounds**](http://docs.google.com/javax/accessibility/AccessibleText.html#getCharacterBounds(int))(int i)            Determines the bounding box of the character at the given index into the string. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AccessibleExtendedText.**[**getTextBounds**](http://docs.google.com/javax/accessibility/AccessibleExtendedText.html#getTextBounds(int,%20int))(int startIndex, int endIndex)            Returns the bounding rectangle of the text between two indices. |

| Methods in [javax.accessibility](http://docs.google.com/javax/accessibility/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| void | **AccessibleComponent.**[**setBounds**](http://docs.google.com/javax/accessibility/AccessibleComponent.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Sets the bounds of this object in the form of a Rectangle object. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) | |
| --- | --- |

| Fields in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) declared as [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **IIOParam.**[**sourceRegion**](http://docs.google.com/javax/imageio/IIOParam.html#sourceRegion)            The source region, on null if none is set. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **IIOParam.**[**getSourceRegion**](http://docs.google.com/javax/imageio/IIOParam.html#getSourceRegion())()            Returns the source region to be used. |
| protected static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **ImageReader.**[**getSourceRegion**](http://docs.google.com/javax/imageio/ImageReader.html#getSourceRegion(javax.imageio.ImageReadParam,%20int,%20int))([ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html) param, int srcWidth, int srcHeight)            A utility method that may be used by readers to compute the region of the source image that should be read, taking into account any source region and subsampling offset settings in the supplied ImageReadParam. |

| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected static void | **ImageReader.**[**computeRegions**](http://docs.google.com/javax/imageio/ImageReader.html#computeRegions(javax.imageio.ImageReadParam,%20int,%20int,%20java.awt.image.BufferedImage,%20java.awt.Rectangle,%20java.awt.Rectangle))([ImageReadParam](http://docs.google.com/javax/imageio/ImageReadParam.html) param, int srcWidth, int srcHeight, [BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) image, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) srcRegion, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) destRegion)            Computes the source region of interest and the destination region of interest, taking the width and height of the source image, an optional destination image, and an optional ImageReadParam into account. |
| void | **ImageWriter.**[**prepareReplacePixels**](http://docs.google.com/javax/imageio/ImageWriter.html#prepareReplacePixels(int,%20java.awt.Rectangle))(int imageIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) region)            Prepares the writer to handle a series of calls to the replacePixels methods. |
| void | **IIOParam.**[**setSourceRegion**](http://docs.google.com/javax/imageio/IIOParam.html#setSourceRegion(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) sourceRegion)            Sets the source region of interest. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**calculateInnerArea**](http://docs.google.com/javax/swing/SwingUtilities.html#calculateInnerArea(javax.swing.JComponent,%20java.awt.Rectangle))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Stores the position and size of the inner painting area of the specified component in r and returns r. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] | **SwingUtilities.**[**computeDifference**](http://docs.google.com/javax/swing/SwingUtilities.html#computeDifference(java.awt.Rectangle,%20java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rectA, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) rectB)            Convenience returning an array of rect representing the regions within rectA that do not overlap with rectB. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**computeIntersection**](http://docs.google.com/javax/swing/SwingUtilities.html#computeIntersection(int,%20int,%20int,%20int,%20java.awt.Rectangle))(int x, int y, int width, int height, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) dest)            Convenience to calculate the intersection of two rectangles without allocating a new rectangle. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**computeUnion**](http://docs.google.com/javax/swing/SwingUtilities.html#computeUnion(int,%20int,%20int,%20int,%20java.awt.Rectangle))(int x, int y, int width, int height, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) dest)            Convenience method that calculates the union of two rectangles without allocating a new rectangle. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**convertRectangle**](http://docs.google.com/javax/swing/SwingUtilities.html#convertRectangle(java.awt.Component,%20java.awt.Rectangle,%20java.awt.Component))([Component](http://docs.google.com/java/awt/Component.html) source, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) aRectangle, [Component](http://docs.google.com/java/awt/Component.html) destination)            Convert the rectangle aRectangle in source coordinate system to destination coordinate system. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTree.AccessibleJTree.AccessibleJTreeNode.**[**getBounds**](http://docs.google.com/javax/swing/JTree.AccessibleJTree.AccessibleJTreeNode.html#getBounds())() |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTable.AccessibleJTable.AccessibleJTableCell.**[**getBounds**](http://docs.google.com/javax/swing/JTable.AccessibleJTable.AccessibleJTableCell.html#getBounds())() |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JList.AccessibleJList.AccessibleJListChild.**[**getBounds**](http://docs.google.com/javax/swing/JList.AccessibleJList.AccessibleJListChild.html#getBounds())() |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JComponent.**[**getBounds**](http://docs.google.com/javax/swing/JComponent.html#getBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rv)            Stores the bounds of this component into "return value" rv and returns rv. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTabbedPane.**[**getBoundsAt**](http://docs.google.com/javax/swing/JTabbedPane.html#getBoundsAt(int))(int index)            Returns the tab bounds at index. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **DefaultDesktopManager.**[**getBoundsForIconOf**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#getBoundsForIconOf(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            The iconifyFrame() code calls this to determine the proper bounds for the desktopIcon. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JList.**[**getCellBounds**](http://docs.google.com/javax/swing/JList.html#getCellBounds(int,%20int))(int index0, int index1)            Returns the bounding rectangle, in the list's coordinate system, for the range of cells specified by the two indices. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTable.**[**getCellRect**](http://docs.google.com/javax/swing/JTable.html#getCellRect(int,%20int,%20boolean))(int row, int column, boolean includeSpacing)            Returns a rectangle for the cell that lies at the intersection of row and column. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **ProgressMonitor.AccessibleProgressMonitor.**[**getCharacterBounds**](http://docs.google.com/javax/swing/ProgressMonitor.AccessibleProgressMonitor.html#getCharacterBounds(int))(int i)            Determines the bounding box of the character at the given index into the string. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JSpinner.AccessibleJSpinner.**[**getCharacterBounds**](http://docs.google.com/javax/swing/JSpinner.AccessibleJSpinner.html#getCharacterBounds(int))(int i)            Determines the bounding box of the character at the given index into the string. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JLabel.AccessibleJLabel.**[**getCharacterBounds**](http://docs.google.com/javax/swing/JLabel.AccessibleJLabel.html#getCharacterBounds(int))(int i)            Determine the bounding box of the character at the given index into the string. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractButton.AccessibleAbstractButton.**[**getCharacterBounds**](http://docs.google.com/javax/swing/AbstractButton.AccessibleAbstractButton.html#getCharacterBounds(int))(int i)            Determine the bounding box of the character at the given index into the string. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **DebugGraphics.**[**getClipBounds**](http://docs.google.com/javax/swing/DebugGraphics.html#getClipBounds())()            Overrides Graphics.getClipBounds. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **RepaintManager.**[**getDirtyRegion**](http://docs.google.com/javax/swing/RepaintManager.html#getDirtyRegion(javax.swing.JComponent))([JComponent](http://docs.google.com/javax/swing/JComponent.html) aComponent)            Return the current dirty region for a component. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**getLocalBounds**](http://docs.google.com/javax/swing/SwingUtilities.html#getLocalBounds(java.awt.Component))([Component](http://docs.google.com/java/awt/Component.html) aComponent)            Return the rectangle (0,0,bounds.width,bounds.height) for the component aComponent |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JInternalFrame.**[**getNormalBounds**](http://docs.google.com/javax/swing/JInternalFrame.html#getNormalBounds())()            If the JInternalFrame is not in maximized state, returns getBounds(); otherwise, returns the bounds that the JInternalFrame would be restored to. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTree.**[**getPathBounds**](http://docs.google.com/javax/swing/JTree.html#getPathBounds(javax.swing.tree.TreePath))([TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path)            Returns the Rectangle that the specified node will be drawn into. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **DefaultDesktopManager.**[**getPreviousBounds**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#getPreviousBounds(javax.swing.JInternalFrame))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f)            Gets the normal bounds of the component prior to the component being maximized. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTree.**[**getRowBounds**](http://docs.google.com/javax/swing/JTree.html#getRowBounds(int))(int row)            Returns the Rectangle that the node at the specified row is drawn in. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JScrollPane.**[**getViewportBorderBounds**](http://docs.google.com/javax/swing/JScrollPane.html#getViewportBorderBounds())()            Returns the bounds of the viewport's border. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **ScrollPaneLayout.**[**getViewportBorderBounds**](http://docs.google.com/javax/swing/ScrollPaneLayout.html#getViewportBorderBounds(javax.swing.JScrollPane))([JScrollPane](http://docs.google.com/javax/swing/JScrollPane.html) scrollpane)  **Deprecated.** *As of JDK version Swing1.1 replaced by JScrollPane.getViewportBorderBounds().* |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JViewport.**[**getViewRect**](http://docs.google.com/javax/swing/JViewport.html#getViewRect())()            Returns a rectangle whose origin is getViewPosition and size is getExtentSize. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JComponent.**[**getVisibleRect**](http://docs.google.com/javax/swing/JComponent.html#getVisibleRect())()            Returns the Component's "visible rectangle" - the intersection of this component's visible rectangle, new Rectangle(0, 0, getWidth(), getHeight()), and all of its ancestors' visible rectangles. |

| Methods in [javax.swing](http://docs.google.com/javax/swing/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**calculateInnerArea**](http://docs.google.com/javax/swing/SwingUtilities.html#calculateInnerArea(javax.swing.JComponent,%20java.awt.Rectangle))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Stores the position and size of the inner painting area of the specified component in r and returns r. |
| protected  boolean | **JViewport.**[**computeBlit**](http://docs.google.com/javax/swing/JViewport.html#computeBlit(int,%20int,%20java.awt.Point,%20java.awt.Point,%20java.awt.Dimension,%20java.awt.Rectangle))(int dx, int dy, [Point](http://docs.google.com/java/awt/Point.html) blitFrom, [Point](http://docs.google.com/java/awt/Point.html) blitTo, [Dimension](http://docs.google.com/java/awt/Dimension.html) blitSize, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) blitPaint)            Computes the parameters for a blit where the backing store image currently contains oldLoc in the upper left hand corner and we're scrolling to newLoc. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] | **SwingUtilities.**[**computeDifference**](http://docs.google.com/javax/swing/SwingUtilities.html#computeDifference(java.awt.Rectangle,%20java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rectA, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) rectB)            Convenience returning an array of rect representing the regions within rectA that do not overlap with rectB. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**computeIntersection**](http://docs.google.com/javax/swing/SwingUtilities.html#computeIntersection(int,%20int,%20int,%20int,%20java.awt.Rectangle))(int x, int y, int width, int height, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) dest)            Convenience to calculate the intersection of two rectangles without allocating a new rectangle. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**computeUnion**](http://docs.google.com/javax/swing/SwingUtilities.html#computeUnion(int,%20int,%20int,%20int,%20java.awt.Rectangle))(int x, int y, int width, int height, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) dest)            Convenience method that calculates the union of two rectangles without allocating a new rectangle. |
| void | **JComponent.**[**computeVisibleRect**](http://docs.google.com/javax/swing/JComponent.html#computeVisibleRect(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect)            Returns the Component's "visible rect rectangle" - the intersection of the visible rectangles for this component and all of its ancestors. |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **SwingUtilities.**[**convertRectangle**](http://docs.google.com/javax/swing/SwingUtilities.html#convertRectangle(java.awt.Component,%20java.awt.Rectangle,%20java.awt.Component))([Component](http://docs.google.com/java/awt/Component.html) source, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) aRectangle, [Component](http://docs.google.com/java/awt/Component.html) destination)            Convert the rectangle aRectangle in source coordinate system to destination coordinate system. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JComponent.**[**getBounds**](http://docs.google.com/javax/swing/JComponent.html#getBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) rv)            Stores the bounds of this component into "return value" rv and returns rv. |
| int | **JTree.**[**getScrollableBlockIncrement**](http://docs.google.com/javax/swing/JTree.html#getScrollableBlockIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Returns the amount for a block increment, which is the height or width of visibleRect, based on orientation. |
| int | **JTable.**[**getScrollableBlockIncrement**](http://docs.google.com/javax/swing/JTable.html#getScrollableBlockIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Returns visibleRect.height or visibleRect.width, depending on this table's orientation. |
| int | **JList.**[**getScrollableBlockIncrement**](http://docs.google.com/javax/swing/JList.html#getScrollableBlockIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Returns the distance to scroll to expose the next or previous block. |
| int | **Scrollable.**[**getScrollableBlockIncrement**](http://docs.google.com/javax/swing/Scrollable.html#getScrollableBlockIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Components that display logical rows or columns should compute the scroll increment that will completely expose one block of rows or columns, depending on the value of orientation. |
| int | **JTextArea.**[**getScrollableUnitIncrement**](http://docs.google.com/javax/swing/JTextArea.html#getScrollableUnitIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Components that display logical rows or columns should compute the scroll increment that will completely expose one new row or column, depending on the value of orientation. |
| int | **JTree.**[**getScrollableUnitIncrement**](http://docs.google.com/javax/swing/JTree.html#getScrollableUnitIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Returns the amount to increment when scrolling. |
| int | **JTable.**[**getScrollableUnitIncrement**](http://docs.google.com/javax/swing/JTable.html#getScrollableUnitIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Returns the scroll increment (in pixels) that completely exposes one new row or column (depending on the orientation). |
| int | **JList.**[**getScrollableUnitIncrement**](http://docs.google.com/javax/swing/JList.html#getScrollableUnitIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Returns the distance to scroll to expose the next or previous row (for vertical scrolling) or column (for horizontal scrolling). |
| int | **Scrollable.**[**getScrollableUnitIncrement**](http://docs.google.com/javax/swing/Scrollable.html#getScrollableUnitIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Components that display logical rows or columns should compute the scroll increment that will completely expose one new row or column, depending on the value of orientation. |
| static boolean | **SwingUtilities.**[**isRectangleContainingRectangle**](http://docs.google.com/javax/swing/SwingUtilities.html#isRectangleContainingRectangle(java.awt.Rectangle,%20java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) a, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) b)            Return true if a contains b |
| static [String](http://docs.google.com/java/lang/String.html) | **SwingUtilities.**[**layoutCompoundLabel**](http://docs.google.com/javax/swing/SwingUtilities.html#layoutCompoundLabel(java.awt.FontMetrics,%20java.lang.String,%20javax.swing.Icon,%20int,%20int,%20int,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle,%20int))([FontMetrics](http://docs.google.com/java/awt/FontMetrics.html) fm, [String](http://docs.google.com/java/lang/String.html) text, [Icon](http://docs.google.com/javax/swing/Icon.html) icon, int verticalAlignment, int horizontalAlignment, int verticalTextPosition, int horizontalTextPosition, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewR, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconR, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textR, int textIconGap)            Compute and return the location of the icons origin, the location of origin of the text baseline, and a possibly clipped version of the compound labels string. |
| static [String](http://docs.google.com/java/lang/String.html) | **SwingUtilities.**[**layoutCompoundLabel**](http://docs.google.com/javax/swing/SwingUtilities.html#layoutCompoundLabel(javax.swing.JComponent,%20java.awt.FontMetrics,%20java.lang.String,%20javax.swing.Icon,%20int,%20int,%20int,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle,%20int))([JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [FontMetrics](http://docs.google.com/java/awt/FontMetrics.html) fm, [String](http://docs.google.com/java/lang/String.html) text, [Icon](http://docs.google.com/javax/swing/Icon.html) icon, int verticalAlignment, int horizontalAlignment, int verticalTextPosition, int horizontalTextPosition, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewR, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconR, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textR, int textIconGap)            Compute and return the location of the icons origin, the location of origin of the text baseline, and a possibly clipped version of the compound labels string. |
| void | **CellRendererPane.**[**paintComponent**](http://docs.google.com/javax/swing/CellRendererPane.html#paintComponent(java.awt.Graphics,%20java.awt.Component,%20java.awt.Container,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Component](http://docs.google.com/java/awt/Component.html) c, [Container](http://docs.google.com/java/awt/Container.html) p, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Calls this.paintComponent() with the rectangles x,y,width,height fields. |
| static void | **SwingUtilities.**[**paintComponent**](http://docs.google.com/javax/swing/SwingUtilities.html#paintComponent(java.awt.Graphics,%20java.awt.Component,%20java.awt.Container,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Component](http://docs.google.com/java/awt/Component.html) c, [Container](http://docs.google.com/java/awt/Container.html) p, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Paints a component to the specified Graphics. |
| void | **JComponent.**[**paintImmediately**](http://docs.google.com/javax/swing/JComponent.html#paintImmediately(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Paints the specified region now. |
| void | **DefaultListCellRenderer.**[**repaint**](http://docs.google.com/javax/swing/DefaultListCellRenderer.html#repaint(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Overridden for performance reasons. |
| void | **JComponent.**[**repaint**](http://docs.google.com/javax/swing/JComponent.html#repaint(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Adds the specified region to the dirty region list if the component is showing. |
| void | **JTextField.**[**scrollRectToVisible**](http://docs.google.com/javax/swing/JTextField.html#scrollRectToVisible(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Scrolls the field left or right. |
| void | **JViewport.**[**scrollRectToVisible**](http://docs.google.com/javax/swing/JViewport.html#scrollRectToVisible(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) contentRect)            Scrolls the view so that Rectangle within the view becomes visible. |
| void | **JComponent.**[**scrollRectToVisible**](http://docs.google.com/javax/swing/JComponent.html#scrollRectToVisible(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) aRect)            Forwards the scrollRectToVisible() message to the JComponent's parent. |
| void | **JTree.AccessibleJTree.AccessibleJTreeNode.**[**setBounds**](http://docs.google.com/javax/swing/JTree.AccessibleJTree.AccessibleJTreeNode.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r) |
| void | **JTable.AccessibleJTable.AccessibleJTableCell.**[**setBounds**](http://docs.google.com/javax/swing/JTable.AccessibleJTable.AccessibleJTableCell.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r) |
| void | **JList.AccessibleJList.AccessibleJListChild.**[**setBounds**](http://docs.google.com/javax/swing/JList.AccessibleJList.AccessibleJListChild.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r) |
| void | **JInternalFrame.**[**setNormalBounds**](http://docs.google.com/javax/swing/JInternalFrame.html#setNormalBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Sets the normal bounds for this internal frame, the bounds that this internal frame would be restored to from its maximized state. |
| protected  void | **DefaultDesktopManager.**[**setPreviousBounds**](http://docs.google.com/javax/swing/DefaultDesktopManager.html#setPreviousBounds(javax.swing.JInternalFrame,%20java.awt.Rectangle))([JInternalFrame](http://docs.google.com/javax/swing/JInternalFrame.html) f, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Stores the bounds of the component just before a maximize call. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.border](http://docs.google.com/javax/swing/border/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing.border](http://docs.google.com/javax/swing/border/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| static [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractBorder.**[**getInteriorRectangle**](http://docs.google.com/javax/swing/border/AbstractBorder.html#getInteriorRectangle(java.awt.Component,%20javax.swing.border.Border,%20int,%20int,%20int,%20int))([Component](http://docs.google.com/java/awt/Component.html) c, [Border](http://docs.google.com/javax/swing/border/Border.html) b, int x, int y, int width, int height)            Returns a rectangle using the arguments minus the insets of the border. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractBorder.**[**getInteriorRectangle**](http://docs.google.com/javax/swing/border/AbstractBorder.html#getInteriorRectangle(java.awt.Component,%20int,%20int,%20int,%20int))([Component](http://docs.google.com/java/awt/Component.html) c, int x, int y, int width, int height)            This convenience method calls the static method. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.plaf](http://docs.google.com/javax/swing/plaf/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing.plaf](http://docs.google.com/javax/swing/plaf/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **ListUI.**[**getCellBounds**](http://docs.google.com/javax/swing/plaf/ListUI.html#getCellBounds(javax.swing.JList,%20int,%20int))([JList](http://docs.google.com/javax/swing/JList.html) list, int index1, int index2)            Returns the bounding rectangle, in the given list's coordinate system, for the range of cells specified by the two indices. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **TreeUI.**[**getPathBounds**](http://docs.google.com/javax/swing/plaf/TreeUI.html#getPathBounds(javax.swing.JTree,%20javax.swing.tree.TreePath))([JTree](http://docs.google.com/javax/swing/JTree.html) tree, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path)            Returns the Rectangle enclosing the label portion that the last item in path will be drawn into. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **TabbedPaneUI.**[**getTabBounds**](http://docs.google.com/javax/swing/plaf/TabbedPaneUI.html#getTabBounds(javax.swing.JTabbedPane,%20int))([JTabbedPane](http://docs.google.com/javax/swing/JTabbedPane.html) pane, int index) |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **TextUI.**[**modelToView**](http://docs.google.com/javax/swing/plaf/TextUI.html#modelToView(javax.swing.text.JTextComponent,%20int))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, int pos)            Converts the given location in the model to a place in the view coordinate system. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **TextUI.**[**modelToView**](http://docs.google.com/javax/swing/plaf/TextUI.html#modelToView(javax.swing.text.JTextComponent,%20int,%20javax.swing.text.Position.Bias))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) t, int pos, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) bias)            Converts the given location in the model to a place in the view coordinate system. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
| --- | --- |

| Subclasses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
| --- | --- |
| static class | [**BasicTextUI.BasicCaret**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.BasicCaret.html) |

| Fields in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) declared as [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicProgressBarUI.**[**boxRect**](http://docs.google.com/javax/swing/plaf/basic/BasicProgressBarUI.html#boxRect)            Used to hold the location and size of the bouncing box (returned by getBox) to be painted. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTabbedPaneUI.**[**calcRect**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#calcRect)            A rectangle used for general layout calculations in order to avoid constructing many new Rectangles on the fly. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicSliderUI.**[**contentRect**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#contentRect) |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicSliderUI.**[**focusRect**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#focusRect) |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicSliderUI.**[**labelRect**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#labelRect) |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] | **BasicTabbedPaneUI.**[**rects**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#rects) |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicSliderUI.**[**thumbRect**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#thumbRect) |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicScrollBarUI.**[**thumbRect**](http://docs.google.com/javax/swing/plaf/basic/BasicScrollBarUI.html#thumbRect) |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicSliderUI.**[**tickRect**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#tickRect) |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicSliderUI.**[**trackRect**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#trackRect) |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicScrollBarUI.**[**trackRect**](http://docs.google.com/javax/swing/plaf/basic/BasicScrollBarUI.html#trackRect) |

| Methods in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicComboPopup.**[**computePopupBounds**](http://docs.google.com/javax/swing/plaf/basic/BasicComboPopup.html#computePopupBounds(int,%20int,%20int,%20int))(int px, int py, int pw, int ph)            Calculate the placement and size of the popup portion of the combo box based on the combo box location and the enclosing screen bounds. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicProgressBarUI.**[**getBox**](http://docs.google.com/javax/swing/plaf/basic/BasicProgressBarUI.html#getBox(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Stores the position and size of the bouncing box that would be painted for the current animation index in r and returns r. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicListUI.**[**getCellBounds**](http://docs.google.com/javax/swing/plaf/basic/BasicListUI.html#getCellBounds(javax.swing.JList,%20int,%20int))([JList](http://docs.google.com/javax/swing/JList.html) list, int index1, int index2)            Returns the bounding rectangle, in the given list's coordinate system, for the range of cells specified by the two indices. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTreeUI.NodeDimensionsHandler.**[**getNodeDimensions**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.NodeDimensionsHandler.html#getNodeDimensions(java.lang.Object,%20int,%20int,%20boolean,%20java.awt.Rectangle))([Object](http://docs.google.com/java/lang/Object.html) value, int row, int depth, boolean expanded, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) size)            Responsible for getting the size of a particular node. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTreeUI.**[**getPathBounds**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#getPathBounds(javax.swing.JTree,%20javax.swing.tree.TreePath))([JTree](http://docs.google.com/javax/swing/JTree.html) tree, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path)            Returns the Rectangle enclosing the label portion that the last item in path will be drawn into. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTabbedPaneUI.**[**getTabBounds**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#getTabBounds(int,%20java.awt.Rectangle))(int tabIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) dest)            Returns the bounds of the specified tab in the coordinate space of the JTabbedPane component. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTabbedPaneUI.**[**getTabBounds**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#getTabBounds(javax.swing.JTabbedPane,%20int))([JTabbedPane](http://docs.google.com/javax/swing/JTabbedPane.html) pane, int i)            Returns the bounds of the specified tab index. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicScrollBarUI.**[**getThumbBounds**](http://docs.google.com/javax/swing/plaf/basic/BasicScrollBarUI.html#getThumbBounds())()            Return the current size/location of the thumb. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicScrollBarUI.**[**getTrackBounds**](http://docs.google.com/javax/swing/plaf/basic/BasicScrollBarUI.html#getTrackBounds())()            Returns the current bounds of the track, i.e. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTextUI.**[**getVisibleEditorRect**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#getVisibleEditorRect())()            Gets the allocation to give the root View. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTextUI.**[**modelToView**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#modelToView(javax.swing.text.JTextComponent,%20int))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) tc, int pos)            Converts the given location in the model to a place in the view coordinate system. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTextUI.**[**modelToView**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.html#modelToView(javax.swing.text.JTextComponent,%20int,%20javax.swing.text.Position.Bias))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) tc, int pos, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) bias)            Converts the given location in the model to a place in the view coordinate system. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicComboBoxUI.**[**rectangleForCurrentValue**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxUI.html#rectangleForCurrentValue())()            Returns the area that is reserved for drawing the currently selected item. |

| Methods in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicProgressBarUI.**[**getBox**](http://docs.google.com/javax/swing/plaf/basic/BasicProgressBarUI.html#getBox(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Stores the position and size of the bouncing box that would be painted for the current animation index in r and returns r. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTreeUI.NodeDimensionsHandler.**[**getNodeDimensions**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.NodeDimensionsHandler.html#getNodeDimensions(java.lang.Object,%20int,%20int,%20boolean,%20java.awt.Rectangle))([Object](http://docs.google.com/java/lang/Object.html) value, int row, int depth, boolean expanded, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) size)            Responsible for getting the size of a particular node. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **BasicTabbedPaneUI.**[**getTabBounds**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#getTabBounds(int,%20java.awt.Rectangle))(int tabIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) dest)            Returns the bounds of the specified tab in the coordinate space of the JTabbedPane component. |
| protected  [String](http://docs.google.com/java/lang/String.html) | **BasicLabelUI.**[**layoutCL**](http://docs.google.com/javax/swing/plaf/basic/BasicLabelUI.html#layoutCL(javax.swing.JLabel,%20java.awt.FontMetrics,%20java.lang.String,%20javax.swing.Icon,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle))([JLabel](http://docs.google.com/javax/swing/JLabel.html) label, [FontMetrics](http://docs.google.com/java/awt/FontMetrics.html) fontMetrics, [String](http://docs.google.com/java/lang/String.html) text, [Icon](http://docs.google.com/javax/swing/Icon.html) icon, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewR, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconR, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textR)            Forwards the call to SwingUtilities.layoutCompoundLabel(). |
| protected  void | **BasicTabbedPaneUI.**[**layoutLabel**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#layoutLabel(int,%20java.awt.FontMetrics,%20int,%20java.lang.String,%20javax.swing.Icon,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle,%20boolean))(int tabPlacement, [FontMetrics](http://docs.google.com/java/awt/FontMetrics.html) metrics, int tabIndex, [String](http://docs.google.com/java/lang/String.html) title, [Icon](http://docs.google.com/javax/swing/Icon.html) icon, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tabRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, boolean isSelected) |
| protected  void | **BasicListUI.**[**paintCell**](http://docs.google.com/javax/swing/plaf/basic/BasicListUI.html#paintCell(java.awt.Graphics,%20int,%20java.awt.Rectangle,%20javax.swing.ListCellRenderer,%20javax.swing.ListModel,%20javax.swing.ListSelectionModel,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int row, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) rowBounds, [ListCellRenderer](http://docs.google.com/javax/swing/ListCellRenderer.html) cellRenderer, [ListModel](http://docs.google.com/javax/swing/ListModel.html) dataModel, [ListSelectionModel](http://docs.google.com/javax/swing/ListSelectionModel.html) selModel, int leadIndex)            Paint one List cell: compute the relevant state, get the "rubber stamp" cell renderer component, and then use the CellRendererPane to paint it. |
| void | **BasicComboBoxUI.**[**paintCurrentValue**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxUI.html#paintCurrentValue(java.awt.Graphics,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, boolean hasFocus)            Paints the currently selected item. |
| void | **BasicComboBoxUI.**[**paintCurrentValueBackground**](http://docs.google.com/javax/swing/plaf/basic/BasicComboBoxUI.html#paintCurrentValueBackground(java.awt.Graphics,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, boolean hasFocus)            Paints the background of the currently selected item. |
| protected  void | **BasicTreeUI.**[**paintExpandControl**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintExpandControl(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds, [Insets](http://docs.google.com/java/awt/Insets.html) insets, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, int row, boolean isExpanded, boolean hasBeenExpanded, boolean isLeaf)            Paints the expand (toggle) part of a row. |
| protected  void | **BasicButtonUI.**[**paintFocus**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintFocus(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **BasicRadioButtonUI.**[**paintFocus**](http://docs.google.com/javax/swing/plaf/basic/BasicRadioButtonUI.html#paintFocus(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Dimension))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [Dimension](http://docs.google.com/java/awt/Dimension.html) size) |
| protected  void | **BasicTabbedPaneUI.**[**paintFocusIndicator**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#paintFocusIndicator(java.awt.Graphics,%20int,%20java.awt.Rectangle%5B%5D,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int tabPlacement, [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] rects, int tabIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, boolean isSelected) |
| protected  void | **BasicTabbedPaneUI.**[**paintFocusIndicator**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#paintFocusIndicator(java.awt.Graphics,%20int,%20java.awt.Rectangle%5B%5D,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int tabPlacement, [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] rects, int tabIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, boolean isSelected) |
| protected  void | **BasicTreeUI.**[**paintHorizontalPartOfLeg**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintHorizontalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds, [Insets](http://docs.google.com/java/awt/Insets.html) insets, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, int row, boolean isExpanded, boolean hasBeenExpanded, boolean isLeaf)            Paints the horizontal part of the leg. |
| protected  void | **BasicToggleButtonUI.**[**paintIcon**](http://docs.google.com/javax/swing/plaf/basic/BasicToggleButtonUI.html#paintIcon(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **BasicTabbedPaneUI.**[**paintIcon**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#paintIcon(java.awt.Graphics,%20int,%20int,%20javax.swing.Icon,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int tabPlacement, int tabIndex, [Icon](http://docs.google.com/javax/swing/Icon.html) icon, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect, boolean isSelected) |
| protected  void | **BasicButtonUI.**[**paintIcon**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintIcon(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **BasicSliderUI.**[**paintMajorTickForHorizSlider**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#paintMajorTickForHorizSlider(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tickBounds, int x) |
| protected  void | **BasicSliderUI.**[**paintMajorTickForVertSlider**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#paintMajorTickForVertSlider(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tickBounds, int y) |
| protected  void | **BasicSliderUI.**[**paintMinorTickForHorizSlider**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#paintMinorTickForHorizSlider(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tickBounds, int x) |
| protected  void | **BasicSliderUI.**[**paintMinorTickForVertSlider**](http://docs.google.com/javax/swing/plaf/basic/BasicSliderUI.html#paintMinorTickForVertSlider(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tickBounds, int y) |
| protected  void | **BasicTreeUI.**[**paintRow**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintRow(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds, [Insets](http://docs.google.com/java/awt/Insets.html) insets, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, int row, boolean isExpanded, boolean hasBeenExpanded, boolean isLeaf)            Paints the renderer part of a row. |
| protected  void | **BasicTabbedPaneUI.**[**paintTab**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#paintTab(java.awt.Graphics,%20int,%20java.awt.Rectangle%5B%5D,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int tabPlacement, [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] rects, int tabIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect) |
| protected  void | **BasicTabbedPaneUI.**[**paintTab**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#paintTab(java.awt.Graphics,%20int,%20java.awt.Rectangle%5B%5D,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int tabPlacement, [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] rects, int tabIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect) |
| protected  void | **BasicButtonUI.**[**paintText**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.lang.String))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [String](http://docs.google.com/java/lang/String.html) text)            Method which renders the text of the current button. |
| protected  void | **BasicTabbedPaneUI.**[**paintText**](http://docs.google.com/javax/swing/plaf/basic/BasicTabbedPaneUI.html#paintText(java.awt.Graphics,%20int,%20java.awt.Font,%20java.awt.FontMetrics,%20int,%20java.lang.String,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int tabPlacement, [Font](http://docs.google.com/java/awt/Font.html) font, [FontMetrics](http://docs.google.com/java/awt/FontMetrics.html) metrics, int tabIndex, [String](http://docs.google.com/java/lang/String.html) title, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, boolean isSelected) |
| protected  void | **BasicButtonUI.**[**paintText**](http://docs.google.com/javax/swing/plaf/basic/BasicButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle,%20java.lang.String))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [String](http://docs.google.com/java/lang/String.html) text)            As of Java 2 platform v 1.4 this method should not be used or overriden. |
| protected  void | **BasicMenuItemUI.**[**paintText**](http://docs.google.com/javax/swing/plaf/basic/BasicMenuItemUI.html#paintText(java.awt.Graphics,%20javax.swing.JMenuItem,%20java.awt.Rectangle,%20java.lang.String))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JMenuItem](http://docs.google.com/javax/swing/JMenuItem.html) menuItem, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [String](http://docs.google.com/java/lang/String.html) text)            Renders the text of the current menu item. |
| protected  void | **BasicScrollBarUI.**[**paintThumb**](http://docs.google.com/javax/swing/plaf/basic/BasicScrollBarUI.html#paintThumb(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) thumbBounds) |
| protected  void | **BasicScrollBarUI.**[**paintTrack**](http://docs.google.com/javax/swing/plaf/basic/BasicScrollBarUI.html#paintTrack(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) trackBounds) |
| protected  void | **BasicTreeUI.**[**paintVerticalPartOfLeg**](http://docs.google.com/javax/swing/plaf/basic/BasicTreeUI.html#paintVerticalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20javax.swing.tree.TreePath))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds, [Insets](http://docs.google.com/java/awt/Insets.html) insets, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path)            Paints the vertical part of the leg. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing.plaf.metal](http://docs.google.com/javax/swing/plaf/metal/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| void | **MetalComboBoxUI.**[**paintCurrentValue**](http://docs.google.com/javax/swing/plaf/metal/MetalComboBoxUI.html#paintCurrentValue(java.awt.Graphics,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, boolean hasFocus)            If necessary paints the currently selected item. |
| void | **MetalComboBoxUI.**[**paintCurrentValueBackground**](http://docs.google.com/javax/swing/plaf/metal/MetalComboBoxUI.html#paintCurrentValueBackground(java.awt.Graphics,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, boolean hasFocus)            If necessary paints the background of the currently selected item. |
| protected  void | **MetalToggleButtonUI.**[**paintFocus**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#paintFocus(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **MetalButtonUI.**[**paintFocus**](http://docs.google.com/javax/swing/plaf/metal/MetalButtonUI.html#paintFocus(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect) |
| protected  void | **MetalRadioButtonUI.**[**paintFocus**](http://docs.google.com/javax/swing/plaf/metal/MetalRadioButtonUI.html#paintFocus(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Dimension))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) t, [Dimension](http://docs.google.com/java/awt/Dimension.html) d) |
| protected  void | **MetalTabbedPaneUI.**[**paintFocusIndicator**](http://docs.google.com/javax/swing/plaf/metal/MetalTabbedPaneUI.html#paintFocusIndicator(java.awt.Graphics,%20int,%20java.awt.Rectangle%5B%5D,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int tabPlacement, [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] rects, int tabIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, boolean isSelected) |
| protected  void | **MetalTabbedPaneUI.**[**paintFocusIndicator**](http://docs.google.com/javax/swing/plaf/metal/MetalTabbedPaneUI.html#paintFocusIndicator(java.awt.Graphics,%20int,%20java.awt.Rectangle%5B%5D,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, int tabPlacement, [Rectangle](http://docs.google.com/java/awt/Rectangle.html)[] rects, int tabIndex, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, boolean isSelected) |
| protected  void | **MetalTreeUI.**[**paintHorizontalPartOfLeg**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#paintHorizontalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20java.awt.Rectangle,%20javax.swing.tree.TreePath,%20int,%20boolean,%20boolean,%20boolean))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds, [Insets](http://docs.google.com/java/awt/Insets.html) insets, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, int row, boolean isExpanded, boolean hasBeenExpanded, boolean isLeaf) |
| protected  void | **MetalToggleButtonUI.**[**paintIcon**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#paintIcon(java.awt.Graphics,%20javax.swing.AbstractButton,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [AbstractButton](http://docs.google.com/javax/swing/AbstractButton.html) b, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconRect)            Paints the appropriate icon of the button b in the space iconRect. |
| protected  void | **MetalSliderUI.**[**paintMajorTickForHorizSlider**](http://docs.google.com/javax/swing/plaf/metal/MetalSliderUI.html#paintMajorTickForHorizSlider(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tickBounds, int x) |
| protected  void | **MetalSliderUI.**[**paintMajorTickForVertSlider**](http://docs.google.com/javax/swing/plaf/metal/MetalSliderUI.html#paintMajorTickForVertSlider(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tickBounds, int y) |
| protected  void | **MetalSliderUI.**[**paintMinorTickForHorizSlider**](http://docs.google.com/javax/swing/plaf/metal/MetalSliderUI.html#paintMinorTickForHorizSlider(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tickBounds, int x) |
| protected  void | **MetalSliderUI.**[**paintMinorTickForVertSlider**](http://docs.google.com/javax/swing/plaf/metal/MetalSliderUI.html#paintMinorTickForVertSlider(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) tickBounds, int y) |
| protected  void | **MetalToggleButtonUI.**[**paintText**](http://docs.google.com/javax/swing/plaf/metal/MetalToggleButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle,%20java.lang.String))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [String](http://docs.google.com/java/lang/String.html) text) |
| protected  void | **MetalButtonUI.**[**paintText**](http://docs.google.com/javax/swing/plaf/metal/MetalButtonUI.html#paintText(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle,%20java.lang.String))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textRect, [String](http://docs.google.com/java/lang/String.html) text) |
| protected  void | **MetalScrollBarUI.**[**paintThumb**](http://docs.google.com/javax/swing/plaf/metal/MetalScrollBarUI.html#paintThumb(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) thumbBounds) |
| protected  void | **MetalScrollBarUI.**[**paintTrack**](http://docs.google.com/javax/swing/plaf/metal/MetalScrollBarUI.html#paintTrack(java.awt.Graphics,%20javax.swing.JComponent,%20java.awt.Rectangle))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [JComponent](http://docs.google.com/javax/swing/JComponent.html) c, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) trackBounds) |
| protected  void | **MetalTreeUI.**[**paintVerticalPartOfLeg**](http://docs.google.com/javax/swing/plaf/metal/MetalTreeUI.html#paintVerticalPartOfLeg(java.awt.Graphics,%20java.awt.Rectangle,%20java.awt.Insets,%20javax.swing.tree.TreePath))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) clipBounds, [Insets](http://docs.google.com/java/awt/Insets.html) insets, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path) |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.plaf.multi](http://docs.google.com/javax/swing/plaf/multi/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing.plaf.multi](http://docs.google.com/javax/swing/plaf/multi/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **MultiListUI.**[**getCellBounds**](http://docs.google.com/javax/swing/plaf/multi/MultiListUI.html#getCellBounds(javax.swing.JList,%20int,%20int))([JList](http://docs.google.com/javax/swing/JList.html) a, int b, int c)            Invokes the getCellBounds method on each UI handled by this object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **MultiTreeUI.**[**getPathBounds**](http://docs.google.com/javax/swing/plaf/multi/MultiTreeUI.html#getPathBounds(javax.swing.JTree,%20javax.swing.tree.TreePath))([JTree](http://docs.google.com/javax/swing/JTree.html) a, [TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) b)            Invokes the getPathBounds method on each UI handled by this object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **MultiTabbedPaneUI.**[**getTabBounds**](http://docs.google.com/javax/swing/plaf/multi/MultiTabbedPaneUI.html#getTabBounds(javax.swing.JTabbedPane,%20int))([JTabbedPane](http://docs.google.com/javax/swing/JTabbedPane.html) a, int b)            Invokes the getTabBounds method on each UI handled by this object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **MultiTextUI.**[**modelToView**](http://docs.google.com/javax/swing/plaf/multi/MultiTextUI.html#modelToView(javax.swing.text.JTextComponent,%20int))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) a, int b)            Invokes the modelToView method on each UI handled by this object. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **MultiTextUI.**[**modelToView**](http://docs.google.com/javax/swing/plaf/multi/MultiTextUI.html#modelToView(javax.swing.text.JTextComponent,%20int,%20javax.swing.text.Position.Bias))([JTextComponent](http://docs.google.com/javax/swing/text/JTextComponent.html) a, int b, [Position.Bias](http://docs.google.com/javax/swing/text/Position.Bias.html) c)            Invokes the modelToView method on each UI handled by this object. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.plaf.synth](http://docs.google.com/javax/swing/plaf/synth/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing.plaf.synth](http://docs.google.com/javax/swing/plaf/synth/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | **SynthGraphicsUtils.**[**layoutText**](http://docs.google.com/javax/swing/plaf/synth/SynthGraphicsUtils.html#layoutText(javax.swing.plaf.synth.SynthContext,%20java.awt.FontMetrics,%20java.lang.String,%20javax.swing.Icon,%20int,%20int,%20int,%20int,%20java.awt.Rectangle,%20java.awt.Rectangle,%20java.awt.Rectangle,%20int))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) ss, [FontMetrics](http://docs.google.com/java/awt/FontMetrics.html) fm, [String](http://docs.google.com/java/lang/String.html) text, [Icon](http://docs.google.com/javax/swing/Icon.html) icon, int hAlign, int vAlign, int hTextPosition, int vTextPosition, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) viewR, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) iconR, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) textR, int iconTextGap)            Lays out text and an icon returning, by reference, the location to place the icon and text. |
| void | **SynthGraphicsUtils.**[**paintText**](http://docs.google.com/javax/swing/plaf/synth/SynthGraphicsUtils.html#paintText(javax.swing.plaf.synth.SynthContext,%20java.awt.Graphics,%20java.lang.String,%20java.awt.Rectangle,%20int))([SynthContext](http://docs.google.com/javax/swing/plaf/synth/SynthContext.html) ss, [Graphics](http://docs.google.com/java/awt/Graphics.html) g, [String](http://docs.google.com/java/lang/String.html) text, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds, int mnemonicIndex)            Paints text at the specified location. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.table](http://docs.google.com/javax/swing/table/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing.table](http://docs.google.com/javax/swing/table/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTableHeader.AccessibleJTableHeader.AccessibleJTableHeaderEntry.**[**getBounds**](http://docs.google.com/javax/swing/table/JTableHeader.AccessibleJTableHeader.AccessibleJTableHeaderEntry.html#getBounds())() |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTableHeader.**[**getHeaderRect**](http://docs.google.com/javax/swing/table/JTableHeader.html#getHeaderRect(int))(int column)            Returns the rectangle containing the header tile at column. |

| Methods in [javax.swing.table](http://docs.google.com/javax/swing/table/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| void | **DefaultTableCellRenderer.**[**repaint**](http://docs.google.com/javax/swing/table/DefaultTableCellRenderer.html#repaint(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Overridden for performance reasons. |
| void | **JTableHeader.AccessibleJTableHeader.AccessibleJTableHeaderEntry.**[**setBounds**](http://docs.google.com/javax/swing/table/JTableHeader.AccessibleJTableHeader.AccessibleJTableHeaderEntry.html#setBounds(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r) |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
| --- | --- |

| Subclasses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
| --- | --- |
| class | [**DefaultCaret**](http://docs.google.com/javax/swing/text/DefaultCaret.html)            A default implementation of Caret. |

| Fields in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) declared as [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AsyncBoxView.ChildLocator.**[**childAlloc**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildLocator.html#childAlloc)            A shape to use for the child allocation to avoid creating a lot of garbage. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AsyncBoxView.ChildLocator.**[**lastAlloc**](http://docs.google.com/javax/swing/text/AsyncBoxView.ChildLocator.html#lastAlloc)            The last seen allocation (for repainting when changes are flushed upward). |

| Methods in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTextComponent.AccessibleJTextComponent.**[**getCharacterBounds**](http://docs.google.com/javax/swing/text/JTextComponent.AccessibleJTextComponent.html#getCharacterBounds(int))(int i)            Determines the bounding box of the character at the given index into the string. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **CompositeView.**[**getInsideAllocation**](http://docs.google.com/javax/swing/text/CompositeView.html#getInsideAllocation(java.awt.Shape))([Shape](http://docs.google.com/java/awt/Shape.html) a)            Translates the immutable allocation given to the view to a mutable allocation that represents the interior allocation (i.e. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTextComponent.AccessibleJTextComponent.**[**getTextBounds**](http://docs.google.com/javax/swing/text/JTextComponent.AccessibleJTextComponent.html#getTextBounds(int,%20int))(int startIndex, int endIndex)            Returns the Rectangle enclosing the text between two indicies. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **PlainView.**[**lineToRect**](http://docs.google.com/javax/swing/text/PlainView.html#lineToRect(java.awt.Shape,%20int))([Shape](http://docs.google.com/java/awt/Shape.html) a, int line)            Determine the rectangle that represents the given line. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **JTextComponent.**[**modelToView**](http://docs.google.com/javax/swing/text/JTextComponent.html#modelToView(int))(int pos)            Converts the given location in the model to a place in the view coordinate system. |

| Methods in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected  void | **DefaultCaret.**[**adjustVisibility**](http://docs.google.com/javax/swing/text/DefaultCaret.html#adjustVisibility(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) nloc)            Scrolls the associated view (if necessary) to make the caret visible. |
| void | **FlowView.FlowStrategy.**[**changedUpdate**](http://docs.google.com/javax/swing/text/FlowView.FlowStrategy.html#changedUpdate(javax.swing.text.FlowView,%20javax.swing.event.DocumentEvent,%20java.awt.Rectangle))([FlowView](http://docs.google.com/javax/swing/text/FlowView.html) fv, [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html) e, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc)            Gives notification from the document that attributes were changed in a location that this view is responsible for. |
| protected  void | **BoxView.**[**childAllocation**](http://docs.google.com/javax/swing/text/BoxView.html#childAllocation(int,%20java.awt.Rectangle))(int index, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc)            Allocates a region for a child view. |
| protected abstract  void | **CompositeView.**[**childAllocation**](http://docs.google.com/javax/swing/text/CompositeView.html#childAllocation(int,%20java.awt.Rectangle))(int index, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) a)            Returns the allocation for a given child. |
| protected  void | **DefaultCaret.**[**damage**](http://docs.google.com/javax/swing/text/DefaultCaret.html#damage(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Damages the area surrounding the caret to cause it to be repainted in a new location. |
| int | **JTextComponent.**[**getScrollableBlockIncrement**](http://docs.google.com/javax/swing/text/JTextComponent.html#getScrollableBlockIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Components that display logical rows or columns should compute the scroll increment that will completely expose one block of rows or columns, depending on the value of orientation. |
| int | **JTextComponent.**[**getScrollableUnitIncrement**](http://docs.google.com/javax/swing/text/JTextComponent.html#getScrollableUnitIncrement(java.awt.Rectangle,%20int,%20int))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) visibleRect, int orientation, int direction)            Components that display logical rows or columns should compute the scroll increment that will completely expose one new row or column, depending on the value of orientation. |
| protected  [View](http://docs.google.com/javax/swing/text/View.html) | **BoxView.**[**getViewAtPoint**](http://docs.google.com/javax/swing/text/BoxView.html#getViewAtPoint(int,%20int,%20java.awt.Rectangle))(int x, int y, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc)            Fetches the child view at the given coordinates. |
| protected abstract  [View](http://docs.google.com/javax/swing/text/View.html) | **CompositeView.**[**getViewAtPoint**](http://docs.google.com/javax/swing/text/CompositeView.html#getViewAtPoint(int,%20int,%20java.awt.Rectangle))(int x, int y, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc)            Fetches the child view at the given coordinates. |
| protected  [View](http://docs.google.com/javax/swing/text/View.html) | **TableView.**[**getViewAtPosition**](http://docs.google.com/javax/swing/text/TableView.html#getViewAtPosition(int,%20java.awt.Rectangle))(int pos, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) a)            Fetches the child view that represents the given position in the model. |
| protected  [View](http://docs.google.com/javax/swing/text/View.html) | **TableView.TableRow.**[**getViewAtPosition**](http://docs.google.com/javax/swing/text/TableView.TableRow.html#getViewAtPosition(int,%20java.awt.Rectangle))(int pos, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) a)            Fetches the child view that represents the given position in the model. |
| protected  [View](http://docs.google.com/javax/swing/text/View.html) | **CompositeView.**[**getViewAtPosition**](http://docs.google.com/javax/swing/text/CompositeView.html#getViewAtPosition(int,%20java.awt.Rectangle))(int pos, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) a)            Fetches the child view that represents the given position in the model. |
| void | **FlowView.FlowStrategy.**[**insertUpdate**](http://docs.google.com/javax/swing/text/FlowView.FlowStrategy.html#insertUpdate(javax.swing.text.FlowView,%20javax.swing.event.DocumentEvent,%20java.awt.Rectangle))([FlowView](http://docs.google.com/javax/swing/text/FlowView.html) fv, [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html) e, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc)            Gives notification that something was inserted into the document in a location that the given flow view is responsible for. |
| protected  boolean | **BoxView.**[**isAfter**](http://docs.google.com/javax/swing/text/BoxView.html#isAfter(int,%20int,%20java.awt.Rectangle))(int x, int y, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) innerAlloc)            Determines if a point falls after an allocated region. |
| protected abstract  boolean | **CompositeView.**[**isAfter**](http://docs.google.com/javax/swing/text/CompositeView.html#isAfter(int,%20int,%20java.awt.Rectangle))(int x, int y, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc)            Tests whether a point lies after the rectangle range. |
| protected  boolean | **BoxView.**[**isBefore**](http://docs.google.com/javax/swing/text/BoxView.html#isBefore(int,%20int,%20java.awt.Rectangle))(int x, int y, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) innerAlloc)            Determines if a point falls before an allocated region. |
| protected abstract  boolean | **CompositeView.**[**isBefore**](http://docs.google.com/javax/swing/text/CompositeView.html#isBefore(int,%20int,%20java.awt.Rectangle))(int x, int y, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc)            Tests whether a point lies before the rectangle range. |
| protected  void | **BoxView.**[**paintChild**](http://docs.google.com/javax/swing/text/BoxView.html#paintChild(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc, int index)            Paints a child. |
| void | **FlowView.FlowStrategy.**[**removeUpdate**](http://docs.google.com/javax/swing/text/FlowView.FlowStrategy.html#removeUpdate(javax.swing.text.FlowView,%20javax.swing.event.DocumentEvent,%20java.awt.Rectangle))([FlowView](http://docs.google.com/javax/swing/text/FlowView.html) fv, [DocumentEvent](http://docs.google.com/javax/swing/event/DocumentEvent.html) e, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc)            Gives notification that something was removed from the document in a location that the given flow view is responsible for. |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.text.html](http://docs.google.com/javax/swing/text/html/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing.text.html](http://docs.google.com/javax/swing/text/html/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| protected  void | **ListView.**[**paintChild**](http://docs.google.com/javax/swing/text/html/ListView.html#paintChild(java.awt.Graphics,%20java.awt.Rectangle,%20int))([Graphics](http://docs.google.com/java/awt/Graphics.html) g, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) alloc, int index)            Paints one of the children; called by paint(). |

| Uses of [Rectangle](http://docs.google.com/java/awt/Rectangle.html) in [javax.swing.tree](http://docs.google.com/javax/swing/tree/package-summary.html) | |
| --- | --- |

| Methods in [javax.swing.tree](http://docs.google.com/javax/swing/tree/package-summary.html) that return [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **VariableHeightLayoutCache.**[**getBounds**](http://docs.google.com/javax/swing/tree/VariableHeightLayoutCache.html#getBounds(javax.swing.tree.TreePath,%20java.awt.Rectangle))([TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) placeIn)            Returns the Rectangle enclosing the label portion into which the item identified by path will be drawn. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **FixedHeightLayoutCache.**[**getBounds**](http://docs.google.com/javax/swing/tree/FixedHeightLayoutCache.html#getBounds(javax.swing.tree.TreePath,%20java.awt.Rectangle))([TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) placeIn)            Returns a rectangle giving the bounds needed to draw path. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractLayoutCache.**[**getBounds**](http://docs.google.com/javax/swing/tree/AbstractLayoutCache.html#getBounds(javax.swing.tree.TreePath,%20java.awt.Rectangle))([TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) placeIn)            Returns a rectangle giving the bounds needed to draw path. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractLayoutCache.**[**getNodeDimensions**](http://docs.google.com/javax/swing/tree/AbstractLayoutCache.html#getNodeDimensions(java.lang.Object,%20int,%20int,%20boolean,%20java.awt.Rectangle))([Object](http://docs.google.com/java/lang/Object.html) value, int row, int depth, boolean expanded, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) placeIn)            Returns, by reference in placeIn, the size needed to represent value. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractLayoutCache.NodeDimensions.**[**getNodeDimensions**](http://docs.google.com/javax/swing/tree/AbstractLayoutCache.NodeDimensions.html#getNodeDimensions(java.lang.Object,%20int,%20int,%20boolean,%20java.awt.Rectangle))([Object](http://docs.google.com/java/lang/Object.html) value, int row, int depth, boolean expanded, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds)            Returns, by reference in bounds, the size and x origin to place value at. |

| Methods in [javax.swing.tree](http://docs.google.com/javax/swing/tree/package-summary.html) with parameters of type [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | |
| --- | --- |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **VariableHeightLayoutCache.**[**getBounds**](http://docs.google.com/javax/swing/tree/VariableHeightLayoutCache.html#getBounds(javax.swing.tree.TreePath,%20java.awt.Rectangle))([TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) placeIn)            Returns the Rectangle enclosing the label portion into which the item identified by path will be drawn. |
| [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **FixedHeightLayoutCache.**[**getBounds**](http://docs.google.com/javax/swing/tree/FixedHeightLayoutCache.html#getBounds(javax.swing.tree.TreePath,%20java.awt.Rectangle))([TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) placeIn)            Returns a rectangle giving the bounds needed to draw path. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractLayoutCache.**[**getBounds**](http://docs.google.com/javax/swing/tree/AbstractLayoutCache.html#getBounds(javax.swing.tree.TreePath,%20java.awt.Rectangle))([TreePath](http://docs.google.com/javax/swing/tree/TreePath.html) path, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) placeIn)            Returns a rectangle giving the bounds needed to draw path. |
| protected  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractLayoutCache.**[**getNodeDimensions**](http://docs.google.com/javax/swing/tree/AbstractLayoutCache.html#getNodeDimensions(java.lang.Object,%20int,%20int,%20boolean,%20java.awt.Rectangle))([Object](http://docs.google.com/java/lang/Object.html) value, int row, int depth, boolean expanded, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) placeIn)            Returns, by reference in placeIn, the size needed to represent value. |
| abstract  [Rectangle](http://docs.google.com/java/awt/Rectangle.html) | **AbstractLayoutCache.NodeDimensions.**[**getNodeDimensions**](http://docs.google.com/javax/swing/tree/AbstractLayoutCache.NodeDimensions.html#getNodeDimensions(java.lang.Object,%20int,%20int,%20boolean,%20java.awt.Rectangle))([Object](http://docs.google.com/java/lang/Object.html) value, int row, int depth, boolean expanded, [Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds)            Returns, by reference in bounds, the size and x origin to place value at. |
| int | **VariableHeightLayoutCache.**[**getPreferredWidth**](http://docs.google.com/javax/swing/tree/VariableHeightLayoutCache.html#getPreferredWidth(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds)            Returns the preferred width and height for the region in visibleRegion. |
| int | **AbstractLayoutCache.**[**getPreferredWidth**](http://docs.google.com/javax/swing/tree/AbstractLayoutCache.html#getPreferredWidth(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) bounds)            Returns the preferred width for the passed in region. |
| void | **DefaultTreeCellRenderer.**[**repaint**](http://docs.google.com/javax/swing/tree/DefaultTreeCellRenderer.html#repaint(java.awt.Rectangle))([Rectangle](http://docs.google.com/java/awt/Rectangle.html) r)            Overridden for performance reasons. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/Rectangle.html) | **Use** | [**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   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/awt//class-useRectangle.html)    [**NO FRAMES**](http://docs.google.com/Rectangle.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).