| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/geom/Rectangle2D.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*** |
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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/awt/geom//class-useRectangle2D.html)    [**NO FRAMES**](http://docs.google.com/Rectangle2D.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.awt.geom.Rectangle2D**

| Packages that use [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| [**java.awt**](#3znysh7) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.font**](#2et92p0) | Provides classes and interface relating to fonts. |
| [**java.awt.geom**](#tyjcwt) | Provides the Java 2D classes for defining and performing operations on objects related to two-dimensional geometry. |
| [**java.awt.image**](#3dy6vkm) | Provides classes for creating and modifying images. |
| [**java.awt.image.renderable**](#1t3h5sf) | Provides classes and interfaces for producing rendering-independent images. |
| [**javax.swing.plaf.basic**](#4d34og8) | Provides user interface objects built according to the Basic look and feel. |
| [**javax.swing.text**](#2s8eyo1) | Provides classes and interfaces that deal with editable and noneditable text components. |

| Uses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
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| Subclasses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
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| class | [**Rectangle**](http://docs.google.com/java/awt/Rectangle.html)            A Rectangle specifies an area in a coordinate space that is enclosed by the Rectangle object's upper-left point (x,y) in the coordinate space, its width, and its height. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) that return [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle.**[**createIntersection**](http://docs.google.com/java/awt/Rectangle.html#createIntersection(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the intersection of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle.**[**createUnion**](http://docs.google.com/java/awt/Rectangle.html#createUnion(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the union of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **TexturePaint.**[**getAnchorRect**](http://docs.google.com/java/awt/TexturePaint.html#getAnchorRect())()            Returns a copy of the anchor rectangle which positions and sizes the textured image. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle.**[**getBounds2D**](http://docs.google.com/java/awt/Rectangle.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Polygon.**[**getBounds2D**](http://docs.google.com/java/awt/Polygon.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Shape.**[**getBounds2D**](http://docs.google.com/java/awt/Shape.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Font.**[**getMaxCharBounds**](http://docs.google.com/java/awt/Font.html#getMaxCharBounds(java.awt.font.FontRenderContext))([FontRenderContext](http://docs.google.com/java/awt/font/FontRenderContext.html) frc)            Returns the bounds for the character with the maximum bounds as defined in the specified FontRenderContext. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **FontMetrics.**[**getMaxCharBounds**](http://docs.google.com/java/awt/FontMetrics.html#getMaxCharBounds(java.awt.Graphics))([Graphics](http://docs.google.com/java/awt/Graphics.html) context)            Returns the bounds for the character with the maximum bounds in the specified Graphics context. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Font.**[**getStringBounds**](http://docs.google.com/java/awt/Font.html#getStringBounds(char%5B%5D,%20int,%20int,%20java.awt.font.FontRenderContext))(char[] chars, int beginIndex, int limit, [FontRenderContext](http://docs.google.com/java/awt/font/FontRenderContext.html) frc)            Returns the logical bounds of the specified array of characters in the specified FontRenderContext. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **FontMetrics.**[**getStringBounds**](http://docs.google.com/java/awt/FontMetrics.html#getStringBounds(char%5B%5D,%20int,%20int,%20java.awt.Graphics))(char[] chars, int beginIndex, int limit, [Graphics](http://docs.google.com/java/awt/Graphics.html) context)            Returns the bounds of the specified array of characters in the specified Graphics context. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Font.**[**getStringBounds**](http://docs.google.com/java/awt/Font.html#getStringBounds(java.text.CharacterIterator,%20int,%20int,%20java.awt.font.FontRenderContext))([CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) ci, int beginIndex, int limit, [FontRenderContext](http://docs.google.com/java/awt/font/FontRenderContext.html) frc)            Returns the logical bounds of the characters indexed in the specified [CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) in the specified FontRenderContext. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **FontMetrics.**[**getStringBounds**](http://docs.google.com/java/awt/FontMetrics.html#getStringBounds(java.text.CharacterIterator,%20int,%20int,%20java.awt.Graphics))([CharacterIterator](http://docs.google.com/java/text/CharacterIterator.html) ci, int beginIndex, int limit, [Graphics](http://docs.google.com/java/awt/Graphics.html) context)            Returns the bounds of the characters indexed in the specified CharacterIterator in the specified Graphics context. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Font.**[**getStringBounds**](http://docs.google.com/java/awt/Font.html#getStringBounds(java.lang.String,%20java.awt.font.FontRenderContext))([String](http://docs.google.com/java/lang/String.html) str, [FontRenderContext](http://docs.google.com/java/awt/font/FontRenderContext.html) frc)            Returns the logical bounds of the specified String in the specified FontRenderContext. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **FontMetrics.**[**getStringBounds**](http://docs.google.com/java/awt/FontMetrics.html#getStringBounds(java.lang.String,%20java.awt.Graphics))([String](http://docs.google.com/java/lang/String.html) str, [Graphics](http://docs.google.com/java/awt/Graphics.html) context)            Returns the bounds of the specified String in the specified Graphics context. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Font.**[**getStringBounds**](http://docs.google.com/java/awt/Font.html#getStringBounds(java.lang.String,%20int,%20int,%20java.awt.font.FontRenderContext))([String](http://docs.google.com/java/lang/String.html) str, int beginIndex, int limit, [FontRenderContext](http://docs.google.com/java/awt/font/FontRenderContext.html) frc)            Returns the logical bounds of the specified String in the specified FontRenderContext. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **FontMetrics.**[**getStringBounds**](http://docs.google.com/java/awt/FontMetrics.html#getStringBounds(java.lang.String,%20int,%20int,%20java.awt.Graphics))([String](http://docs.google.com/java/lang/String.html) str, int beginIndex, int limit, [Graphics](http://docs.google.com/java/awt/Graphics.html) context)            Returns the bounds of the specified String in the specified Graphics context. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| boolean | **Polygon.**[**contains**](http://docs.google.com/java/awt/Polygon.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape entirely contains the specified Rectangle2D. |
| boolean | **Shape.**[**contains**](http://docs.google.com/java/awt/Shape.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape entirely contains the specified Rectangle2D. |
| [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. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle.**[**createIntersection**](http://docs.google.com/java/awt/Rectangle.html#createIntersection(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the intersection of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle.**[**createUnion**](http://docs.google.com/java/awt/Rectangle.html#createUnion(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the union of this Rectangle2D with the specified Rectangle2D. |
| boolean | **Polygon.**[**intersects**](http://docs.google.com/java/awt/Polygon.html#intersects(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape intersects the interior of a specified Rectangle2D. |
| boolean | **Shape.**[**intersects**](http://docs.google.com/java/awt/Shape.html#intersects(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape intersects the interior of a specified Rectangle2D. |

| Constructors in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| [**RadialGradientPaint**](http://docs.google.com/java/awt/RadialGradientPaint.html#RadialGradientPaint(java.awt.geom.Rectangle2D,%20float%5B%5D,%20java.awt.Color%5B%5D,%20java.awt.MultipleGradientPaint.CycleMethod))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) gradientBounds, float[] fractions, [Color](http://docs.google.com/java/awt/Color.html)[] colors, [MultipleGradientPaint.CycleMethod](http://docs.google.com/java/awt/MultipleGradientPaint.CycleMethod.html) cycleMethod)            Constructs a RadialGradientPaint with a default SRGB color space. |
| [**TexturePaint**](http://docs.google.com/java/awt/TexturePaint.html#TexturePaint(java.awt.image.BufferedImage,%20java.awt.geom.Rectangle2D))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) txtr, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) anchor)            Constructs a TexturePaint object. |

| Uses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [java.awt.font](http://docs.google.com/java/awt/font/package-summary.html) | |
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| Methods in [java.awt.font](http://docs.google.com/java/awt/font/package-summary.html) that return [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
| --- | --- |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ShapeGraphicAttribute.**[**getBounds**](http://docs.google.com/java/awt/font/ShapeGraphicAttribute.html#getBounds())()            Returns a [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) that encloses all of the bits drawn by this ShapeGraphicAttribute relative to the rendering position. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **TextLayout.**[**getBounds**](http://docs.google.com/java/awt/font/TextLayout.html#getBounds())()            Returns the bounds of this TextLayout. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ImageGraphicAttribute.**[**getBounds**](http://docs.google.com/java/awt/font/ImageGraphicAttribute.html#getBounds())()            Returns a [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) that encloses all of the bits rendered by this ImageGraphicAttribute, relative to the rendering position. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **GraphicAttribute.**[**getBounds**](http://docs.google.com/java/awt/font/GraphicAttribute.html#getBounds())()            Returns a [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) that encloses all of the bits drawn by this GraphicAttribute relative to the rendering position. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **GlyphMetrics.**[**getBounds2D**](http://docs.google.com/java/awt/font/GlyphMetrics.html#getBounds2D())()            Returns the bounds of the glyph. |
| abstract  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **GlyphVector.**[**getLogicalBounds**](http://docs.google.com/java/awt/font/GlyphVector.html#getLogicalBounds())()            Returns the logical bounds of this GlyphVector. |
| abstract  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **GlyphVector.**[**getVisualBounds**](http://docs.google.com/java/awt/font/GlyphVector.html#getVisualBounds())()            Returns the visual bounds of this GlyphVector The visual bounds is the bounding box of the outline of this GlyphVector. |

| Methods in [java.awt.font](http://docs.google.com/java/awt/font/package-summary.html) with parameters of type [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| float[] | **TextLayout.**[**getCaretInfo**](http://docs.google.com/java/awt/font/TextLayout.html#getCaretInfo(java.awt.font.TextHitInfo,%20java.awt.geom.Rectangle2D))([TextHitInfo](http://docs.google.com/java/awt/font/TextHitInfo.html) hit, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds)            Returns information about the caret corresponding to hit. |
| [Shape](http://docs.google.com/java/awt/Shape.html) | **TextLayout.**[**getCaretShape**](http://docs.google.com/java/awt/font/TextLayout.html#getCaretShape(java.awt.font.TextHitInfo,%20java.awt.geom.Rectangle2D))([TextHitInfo](http://docs.google.com/java/awt/font/TextHitInfo.html) hit, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds)            Returns a [Shape](http://docs.google.com/java/awt/Shape.html) representing the caret at the specified hit inside the specified bounds. |
| [Shape](http://docs.google.com/java/awt/Shape.html)[] | **TextLayout.**[**getCaretShapes**](http://docs.google.com/java/awt/font/TextLayout.html#getCaretShapes(int,%20java.awt.geom.Rectangle2D))(int offset, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds)            Returns two paths corresponding to the strong and weak caret. |
| [Shape](http://docs.google.com/java/awt/Shape.html)[] | **TextLayout.**[**getCaretShapes**](http://docs.google.com/java/awt/font/TextLayout.html#getCaretShapes(int,%20java.awt.geom.Rectangle2D,%20java.awt.font.TextLayout.CaretPolicy))(int offset, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds, [TextLayout.CaretPolicy](http://docs.google.com/java/awt/font/TextLayout.CaretPolicy.html) policy)            Returns two paths corresponding to the strong and weak caret. |
| [Shape](http://docs.google.com/java/awt/Shape.html) | **TextLayout.**[**getLogicalHighlightShape**](http://docs.google.com/java/awt/font/TextLayout.html#getLogicalHighlightShape(int,%20int,%20java.awt.geom.Rectangle2D))(int firstEndpoint, int secondEndpoint, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds)            Returns a Shape enclosing the logical selection in the specified range, extended to the specified bounds. |
| [Shape](http://docs.google.com/java/awt/Shape.html) | **TextLayout.**[**getVisualHighlightShape**](http://docs.google.com/java/awt/font/TextLayout.html#getVisualHighlightShape(java.awt.font.TextHitInfo,%20java.awt.font.TextHitInfo,%20java.awt.geom.Rectangle2D))([TextHitInfo](http://docs.google.com/java/awt/font/TextHitInfo.html) firstEndpoint, [TextHitInfo](http://docs.google.com/java/awt/font/TextHitInfo.html) secondEndpoint, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds)            Returns a path enclosing the visual selection in the specified range, extended to bounds. |
| [TextHitInfo](http://docs.google.com/java/awt/font/TextHitInfo.html) | **TextLayout.**[**hitTestChar**](http://docs.google.com/java/awt/font/TextLayout.html#hitTestChar(float,%20float,%20java.awt.geom.Rectangle2D))(float x, float y, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds)            Returns a TextHitInfo corresponding to the specified point. |

| Constructors in [java.awt.font](http://docs.google.com/java/awt/font/package-summary.html) with parameters of type [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| [**GlyphMetrics**](http://docs.google.com/java/awt/font/GlyphMetrics.html#GlyphMetrics(boolean,%20float,%20float,%20java.awt.geom.Rectangle2D,%20byte))(boolean horizontal, float advanceX, float advanceY, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds, byte glyphType)            Constructs a GlyphMetrics object. |
| [**GlyphMetrics**](http://docs.google.com/java/awt/font/GlyphMetrics.html#GlyphMetrics(float,%20java.awt.geom.Rectangle2D,%20byte))(float advance, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) bounds, byte glyphType)            Constructs a GlyphMetrics object. |

| Uses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) | |
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| Subclasses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) | |
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| static class | [**Rectangle2D.Double**](http://docs.google.com/java/awt/geom/Rectangle2D.Double.html)            The Double class defines a rectangle specified in double coordinates. |
| static class | [**Rectangle2D.Float**](http://docs.google.com/java/awt/geom/Rectangle2D.Float.html)            The Float class defines a rectangle specified in float coordinates. |

| Methods in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) that return [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| abstract  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.**[**createIntersection**](http://docs.google.com/java/awt/geom/Rectangle2D.html#createIntersection(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the intersection of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Float.**[**createIntersection**](http://docs.google.com/java/awt/geom/Rectangle2D.Float.html#createIntersection(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the intersection of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Double.**[**createIntersection**](http://docs.google.com/java/awt/geom/Rectangle2D.Double.html#createIntersection(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the intersection of this Rectangle2D with the specified Rectangle2D. |
| abstract  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.**[**createUnion**](http://docs.google.com/java/awt/geom/Rectangle2D.html#createUnion(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the union of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Float.**[**createUnion**](http://docs.google.com/java/awt/geom/Rectangle2D.Float.html#createUnion(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the union of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Double.**[**createUnion**](http://docs.google.com/java/awt/geom/Rectangle2D.Double.html#createUnion(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the union of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Rectangle2D.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Float.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Rectangle2D.Float.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Double.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Rectangle2D.Double.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **RoundRectangle2D.Float.**[**getBounds2D**](http://docs.google.com/java/awt/geom/RoundRectangle2D.Float.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **RoundRectangle2D.Double.**[**getBounds2D**](http://docs.google.com/java/awt/geom/RoundRectangle2D.Double.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **QuadCurve2D.Float.**[**getBounds2D**](http://docs.google.com/java/awt/geom/QuadCurve2D.Float.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **QuadCurve2D.Double.**[**getBounds2D**](http://docs.google.com/java/awt/geom/QuadCurve2D.Double.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Ellipse2D.Float.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Ellipse2D.Float.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Ellipse2D.Double.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Ellipse2D.Double.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **CubicCurve2D.Float.**[**getBounds2D**](http://docs.google.com/java/awt/geom/CubicCurve2D.Float.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **CubicCurve2D.Double.**[**getBounds2D**](http://docs.google.com/java/awt/geom/CubicCurve2D.Double.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Area.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Area.html#getBounds2D())()            Returns a high precision bounding [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) that completely encloses this Area. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Arc2D.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Arc2D.html#getBounds2D())()            Returns the high-precision framing rectangle of the arc. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Path2D.Float.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Path2D.Float.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Path2D.Double.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Path2D.Double.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Line2D.Float.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Line2D.Float.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Line2D.Double.**[**getBounds2D**](http://docs.google.com/java/awt/geom/Line2D.Double.html#getBounds2D())()            Returns a high precision and more accurate bounding box of the Shape than the getBounds method. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **RectangularShape.**[**getFrame**](http://docs.google.com/java/awt/geom/RectangularShape.html#getFrame())()            Returns the framing [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) that defines the overall shape of this object. |
| protected abstract  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Arc2D.**[**makeBounds**](http://docs.google.com/java/awt/geom/Arc2D.html#makeBounds(double,%20double,%20double,%20double))(double x, double y, double w, double h)            Constructs a Rectangle2D of the appropriate precision to hold the parameters calculated to be the framing rectangle of this arc. |
| protected  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Arc2D.Float.**[**makeBounds**](http://docs.google.com/java/awt/geom/Arc2D.Float.html#makeBounds(double,%20double,%20double,%20double))(double x, double y, double w, double h)            Constructs a Rectangle2D of the appropriate precision to hold the parameters calculated to be the framing rectangle of this arc. |
| protected  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Arc2D.Double.**[**makeBounds**](http://docs.google.com/java/awt/geom/Arc2D.Double.html#makeBounds(double,%20double,%20double,%20double))(double x, double y, double w, double h)            Constructs a Rectangle2D of the appropriate precision to hold the parameters calculated to be the framing rectangle of this arc. |

| Methods in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) with parameters of type [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| void | **Rectangle2D.**[**add**](http://docs.google.com/java/awt/geom/Rectangle2D.html#add(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Adds a Rectangle2D object to this Rectangle2D. |
| static boolean | **Path2D.**[**contains**](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.PathIterator,%20java.awt.geom.Rectangle2D))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the specified [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) is entirely inside the closed boundary of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html). |
| boolean | **QuadCurve2D.**[**contains**](http://docs.google.com/java/awt/geom/QuadCurve2D.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape entirely contains the specified Rectangle2D. |
| boolean | **CubicCurve2D.**[**contains**](http://docs.google.com/java/awt/geom/CubicCurve2D.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape entirely contains the specified Rectangle2D. |
| boolean | **Area.**[**contains**](http://docs.google.com/java/awt/geom/Area.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape entirely contains the specified Rectangle2D. |
| boolean | **Arc2D.**[**contains**](http://docs.google.com/java/awt/geom/Arc2D.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Determines whether or not the interior of the arc entirely contains the specified rectangle. |
| boolean | **Path2D.**[**contains**](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape entirely contains the specified Rectangle2D. |
| boolean | **Line2D.**[**contains**](http://docs.google.com/java/awt/geom/Line2D.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of this Line2D entirely contains the specified Rectangle2D. |
| boolean | **RectangularShape.**[**contains**](http://docs.google.com/java/awt/geom/RectangularShape.html#contains(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape entirely contains the specified Rectangle2D. |
| abstract  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.**[**createIntersection**](http://docs.google.com/java/awt/geom/Rectangle2D.html#createIntersection(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the intersection of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Float.**[**createIntersection**](http://docs.google.com/java/awt/geom/Rectangle2D.Float.html#createIntersection(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the intersection of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Double.**[**createIntersection**](http://docs.google.com/java/awt/geom/Rectangle2D.Double.html#createIntersection(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the intersection of this Rectangle2D with the specified Rectangle2D. |
| abstract  [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.**[**createUnion**](http://docs.google.com/java/awt/geom/Rectangle2D.html#createUnion(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the union of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Float.**[**createUnion**](http://docs.google.com/java/awt/geom/Rectangle2D.Float.html#createUnion(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the union of this Rectangle2D with the specified Rectangle2D. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **Rectangle2D.Double.**[**createUnion**](http://docs.google.com/java/awt/geom/Rectangle2D.Double.html#createUnion(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Returns a new Rectangle2D object representing the union of this Rectangle2D with the specified Rectangle2D. |
| static void | **Rectangle2D.**[**intersect**](http://docs.google.com/java/awt/geom/Rectangle2D.html#intersect(java.awt.geom.Rectangle2D,%20java.awt.geom.Rectangle2D,%20java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) src1, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) src2, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) dest)            Intersects the pair of specified source Rectangle2D objects and puts the result into the specified destination Rectangle2D object. |
| static boolean | **Path2D.**[**intersects**](http://docs.google.com/java/awt/geom/Path2D.html#intersects(java.awt.geom.PathIterator,%20java.awt.geom.Rectangle2D))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) intersects the interior of a specified [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html). |
| boolean | **QuadCurve2D.**[**intersects**](http://docs.google.com/java/awt/geom/QuadCurve2D.html#intersects(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape intersects the interior of a specified Rectangle2D. |
| boolean | **CubicCurve2D.**[**intersects**](http://docs.google.com/java/awt/geom/CubicCurve2D.html#intersects(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape intersects the interior of a specified Rectangle2D. |
| boolean | **Area.**[**intersects**](http://docs.google.com/java/awt/geom/Area.html#intersects(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape intersects the interior of a specified Rectangle2D. |
| boolean | **Path2D.**[**intersects**](http://docs.google.com/java/awt/geom/Path2D.html#intersects(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape intersects the interior of a specified Rectangle2D. |
| boolean | **Line2D.**[**intersects**](http://docs.google.com/java/awt/geom/Line2D.html#intersects(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape intersects the interior of a specified Rectangle2D. |
| boolean | **RectangularShape.**[**intersects**](http://docs.google.com/java/awt/geom/RectangularShape.html#intersects(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Tests if the interior of the Shape intersects the interior of a specified Rectangle2D. |
| void | **Arc2D.**[**setArc**](http://docs.google.com/java/awt/geom/Arc2D.html#setArc(java.awt.geom.Rectangle2D,%20double,%20double,%20int))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) rect, double angSt, double angExt, int closure)            Sets the location, size, angular extents, and closure type of this arc to the specified values. |
| void | **RectangularShape.**[**setFrame**](http://docs.google.com/java/awt/geom/RectangularShape.html#setFrame(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Sets the framing rectangle of this Shape to be the specified Rectangle2D. |
| void | **Rectangle2D.**[**setRect**](http://docs.google.com/java/awt/geom/Rectangle2D.html#setRect(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Sets this Rectangle2D to be the same as the specified Rectangle2D. |
| void | **Rectangle2D.Float.**[**setRect**](http://docs.google.com/java/awt/geom/Rectangle2D.Float.html#setRect(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Sets this Rectangle2D to be the same as the specified Rectangle2D. |
| void | **Rectangle2D.Double.**[**setRect**](http://docs.google.com/java/awt/geom/Rectangle2D.Double.html#setRect(java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) r)            Sets this Rectangle2D to be the same as the specified Rectangle2D. |
| static void | **Rectangle2D.**[**union**](http://docs.google.com/java/awt/geom/Rectangle2D.html#union(java.awt.geom.Rectangle2D,%20java.awt.geom.Rectangle2D,%20java.awt.geom.Rectangle2D))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) src1, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) src2, [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) dest)            Unions the pair of source Rectangle2D objects and puts the result into the specified destination Rectangle2D object. |

| Constructors in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) with parameters of type [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| [**Arc2D.Double**](http://docs.google.com/java/awt/geom/Arc2D.Double.html#Arc2D.Double(java.awt.geom.Rectangle2D,%20double,%20double,%20int))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) ellipseBounds, double start, double extent, int type)            Constructs a new arc, initialized to the specified location, size, angular extents, and closure type. |
| [**Arc2D.Float**](http://docs.google.com/java/awt/geom/Arc2D.Float.html#Arc2D.Float(java.awt.geom.Rectangle2D,%20float,%20float,%20int))([Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) ellipseBounds, float start, float extent, int type)            Constructs a new arc, initialized to the specified location, size, angular extents, and closure type. |

| Uses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that return [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **RescaleOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/RescaleOp.html#getBounds2D(java.awt.image.BufferedImage))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src)            Returns the bounding box of the rescaled destination image. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **LookupOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/LookupOp.html#getBounds2D(java.awt.image.BufferedImage))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src)            Returns the bounding box of the filtered destination image. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ConvolveOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/ConvolveOp.html#getBounds2D(java.awt.image.BufferedImage))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src)            Returns the bounding box of the filtered destination image. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ColorConvertOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/ColorConvertOp.html#getBounds2D(java.awt.image.BufferedImage))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src)            Returns the bounding box of the destination, given this source. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **AffineTransformOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/AffineTransformOp.html#getBounds2D(java.awt.image.BufferedImage))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src)            Returns the bounding box of the transformed destination. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **BufferedImageOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/BufferedImageOp.html#getBounds2D(java.awt.image.BufferedImage))([BufferedImage](http://docs.google.com/java/awt/image/BufferedImage.html) src)            Returns the bounding box of the filtered destination image. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **RescaleOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/RescaleOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the rescaled destination Raster. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **LookupOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/LookupOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the filtered destination Raster. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ConvolveOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/ConvolveOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the filtered destination Raster. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ColorConvertOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/ColorConvertOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the destination, given this source. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **BandCombineOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/BandCombineOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the transformed destination. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **RasterOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/RasterOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the filtered destination Raster. |
| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **AffineTransformOp.**[**getBounds2D**](http://docs.google.com/java/awt/image/AffineTransformOp.html#getBounds2D(java.awt.image.Raster))([Raster](http://docs.google.com/java/awt/image/Raster.html) src)            Returns the bounding box of the transformed destination. |

| Uses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [java.awt.image.renderable](http://docs.google.com/java/awt/image/renderable/package-summary.html) | |
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| Methods in [java.awt.image.renderable](http://docs.google.com/java/awt/image/renderable/package-summary.html) that return [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | |
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| [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) | **ContextualRenderedImageFactory.**[**getBounds2D**](http://docs.google.com/java/awt/image/renderable/ContextualRenderedImageFactory.html#getBounds2D(java.awt.image.renderable.ParameterBlock))([ParameterBlock](http://docs.google.com/java/awt/image/renderable/ParameterBlock.html) paramBlock)            Returns the bounding box for the output of the operation, performed on a given set of sources, in rendering-independent space. |

| Uses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
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| Subclasses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
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| static class | [**BasicTextUI.BasicCaret**](http://docs.google.com/javax/swing/plaf/basic/BasicTextUI.BasicCaret.html) |

| Uses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.html) in [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
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| Subclasses of [Rectangle2D](http://docs.google.com/java/awt/geom/Rectangle2D.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. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/geom/Rectangle2D.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/geom//class-useRectangle2D.html)    [**NO FRAMES**](http://docs.google.com/Rectangle2D.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.

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