| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **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/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Package**

**java.awt.geom**

| Packages that use [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.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**](#4d34og8) | Provides one interface and many abstract classes that Swing uses to provide its pluggable look-and-feel capabilities. |
| [**javax.swing.plaf.basic**](#2s8eyo1) | Provides user interface objects built according to the Basic look and feel. |
| [**javax.swing.text**](#17dp8vu) | Provides classes and interfaces that deal with editable and noneditable text components. |

| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) used by [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
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| [**AffineTransform**](http://docs.google.com/java/awt/geom/class-use/AffineTransform.html#java.awt)            The AffineTransform class represents a 2D affine transform that performs a linear mapping from 2D coordinates to other 2D coordinates that preserves the "straightness" and "parallelness" of lines. |
| [**Dimension2D**](http://docs.google.com/java/awt/geom/class-use/Dimension2D.html#java.awt)            The Dimension2D class is to encapsulate a width and a height dimension. |
| [**PathIterator**](http://docs.google.com/java/awt/geom/class-use/PathIterator.html#java.awt)            The PathIterator interface provides the mechanism for objects that implement the [Shape](http://docs.google.com/java/awt/Shape.html) interface to return the geometry of their boundary by allowing a caller to retrieve the path of that boundary a segment at a time. |
| [**Point2D**](http://docs.google.com/java/awt/geom/class-use/Point2D.html#java.awt)            The Point2D class defines a point representing a location in (x,y) coordinate space. |
| [**Rectangle2D**](http://docs.google.com/java/awt/geom/class-use/Rectangle2D.html#java.awt)            The Rectangle2D class describes a rectangle defined by a location (x,y) and dimension (w x h). |
| [**RectangularShape**](http://docs.google.com/java/awt/geom/class-use/RectangularShape.html#java.awt)            RectangularShape is the base class for a number of [Shape](http://docs.google.com/java/awt/Shape.html) objects whose geometry is defined by a rectangular frame. |

| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) used by [java.awt.font](http://docs.google.com/java/awt/font/package-summary.html) | |
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| [**AffineTransform**](http://docs.google.com/java/awt/geom/class-use/AffineTransform.html#java.awt.font)            The AffineTransform class represents a 2D affine transform that performs a linear mapping from 2D coordinates to other 2D coordinates that preserves the "straightness" and "parallelness" of lines. |
| [**Point2D**](http://docs.google.com/java/awt/geom/class-use/Point2D.html#java.awt.font)            The Point2D class defines a point representing a location in (x,y) coordinate space. |
| [**Rectangle2D**](http://docs.google.com/java/awt/geom/class-use/Rectangle2D.html#java.awt.font)            The Rectangle2D class describes a rectangle defined by a location (x,y) and dimension (w x h). |

| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) used by [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) | |
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| [**AffineTransform**](http://docs.google.com/java/awt/geom/class-use/AffineTransform.html#java.awt.geom)            The AffineTransform class represents a 2D affine transform that performs a linear mapping from 2D coordinates to other 2D coordinates that preserves the "straightness" and "parallelness" of lines. |
| [**Arc2D**](http://docs.google.com/java/awt/geom/class-use/Arc2D.html#java.awt.geom)            Arc2D is the abstract superclass for all objects that store a 2D arc defined by a framing rectangle, start angle, angular extent (length of the arc), and a closure type (OPEN, CHORD, or PIE). |
| [**Area**](http://docs.google.com/java/awt/geom/class-use/Area.html#java.awt.geom)            An Area object stores and manipulates a resolution-independent description of an enclosed area of 2-dimensional space. |
| [**CubicCurve2D**](http://docs.google.com/java/awt/geom/class-use/CubicCurve2D.html#java.awt.geom)            The CubicCurve2D class defines a cubic parametric curve segment in (x,y) coordinate space. |
| [**Dimension2D**](http://docs.google.com/java/awt/geom/class-use/Dimension2D.html#java.awt.geom)            The Dimension2D class is to encapsulate a width and a height dimension. |
| [**Ellipse2D**](http://docs.google.com/java/awt/geom/class-use/Ellipse2D.html#java.awt.geom)            The Ellipse2D class describes an ellipse that is defined by a framing rectangle. |
| [**Line2D**](http://docs.google.com/java/awt/geom/class-use/Line2D.html#java.awt.geom)            This Line2D represents a line segment in (x,y) coordinate space. |
| [**NoninvertibleTransformException**](http://docs.google.com/java/awt/geom/class-use/NoninvertibleTransformException.html#java.awt.geom)            The NoninvertibleTransformException class represents an exception that is thrown if an operation is performed requiring the inverse of an [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) object but the AffineTransform is in a non-invertible state. |
| [**Path2D**](http://docs.google.com/java/awt/geom/class-use/Path2D.html#java.awt.geom)            The Path2D class provides a simple, yet flexible shape which represents an arbitrary geometric path. |
| [**Path2D.Float**](http://docs.google.com/java/awt/geom/class-use/Path2D.Float.html#java.awt.geom)            The Float class defines a geometric path with coordinates stored in single precision floating point. |
| [**PathIterator**](http://docs.google.com/java/awt/geom/class-use/PathIterator.html#java.awt.geom)            The PathIterator interface provides the mechanism for objects that implement the [Shape](http://docs.google.com/java/awt/Shape.html) interface to return the geometry of their boundary by allowing a caller to retrieve the path of that boundary a segment at a time. |
| [**Point2D**](http://docs.google.com/java/awt/geom/class-use/Point2D.html#java.awt.geom)            The Point2D class defines a point representing a location in (x,y) coordinate space. |
| [**QuadCurve2D**](http://docs.google.com/java/awt/geom/class-use/QuadCurve2D.html#java.awt.geom)            The QuadCurve2D class defines a quadratic parametric curve segment in (x,y) coordinate space. |
| [**Rectangle2D**](http://docs.google.com/java/awt/geom/class-use/Rectangle2D.html#java.awt.geom)            The Rectangle2D class describes a rectangle defined by a location (x,y) and dimension (w x h). |
| [**RectangularShape**](http://docs.google.com/java/awt/geom/class-use/RectangularShape.html#java.awt.geom)            RectangularShape is the base class for a number of [Shape](http://docs.google.com/java/awt/Shape.html) objects whose geometry is defined by a rectangular frame. |
| [**RoundRectangle2D**](http://docs.google.com/java/awt/geom/class-use/RoundRectangle2D.html#java.awt.geom)            The RoundRectangle2D class defines a rectangle with rounded corners defined by a location (x,y), a dimension (w x h), and the width and height of an arc with which to round the corners. |

| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) used by [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| [**AffineTransform**](http://docs.google.com/java/awt/geom/class-use/AffineTransform.html#java.awt.image)            The AffineTransform class represents a 2D affine transform that performs a linear mapping from 2D coordinates to other 2D coordinates that preserves the "straightness" and "parallelness" of lines. |
| [**Point2D**](http://docs.google.com/java/awt/geom/class-use/Point2D.html#java.awt.image)            The Point2D class defines a point representing a location in (x,y) coordinate space. |
| [**Rectangle2D**](http://docs.google.com/java/awt/geom/class-use/Rectangle2D.html#java.awt.image)            The Rectangle2D class describes a rectangle defined by a location (x,y) and dimension (w x h). |

| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) used by [java.awt.image.renderable](http://docs.google.com/java/awt/image/renderable/package-summary.html) | |
| --- | --- |
| [**AffineTransform**](http://docs.google.com/java/awt/geom/class-use/AffineTransform.html#java.awt.image.renderable)            The AffineTransform class represents a 2D affine transform that performs a linear mapping from 2D coordinates to other 2D coordinates that preserves the "straightness" and "parallelness" of lines. |
| [**Rectangle2D**](http://docs.google.com/java/awt/geom/class-use/Rectangle2D.html#java.awt.image.renderable)            The Rectangle2D class describes a rectangle defined by a location (x,y) and dimension (w x h). |

| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) used by [javax.swing.plaf](http://docs.google.com/javax/swing/plaf/package-summary.html) | |
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| [**Dimension2D**](http://docs.google.com/java/awt/geom/class-use/Dimension2D.html#javax.swing.plaf)            The Dimension2D class is to encapsulate a width and a height dimension. |

| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) used by [javax.swing.plaf.basic](http://docs.google.com/javax/swing/plaf/basic/package-summary.html) | |
| --- | --- |
| [**Rectangle2D**](http://docs.google.com/java/awt/geom/class-use/Rectangle2D.html#javax.swing.plaf.basic)            The Rectangle2D class describes a rectangle defined by a location (x,y) and dimension (w x h). |
| [**RectangularShape**](http://docs.google.com/java/awt/geom/class-use/RectangularShape.html#javax.swing.plaf.basic)            RectangularShape is the base class for a number of [Shape](http://docs.google.com/java/awt/Shape.html) objects whose geometry is defined by a rectangular frame. |

| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) used by [javax.swing.text](http://docs.google.com/javax/swing/text/package-summary.html) | |
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| [**Rectangle2D**](http://docs.google.com/java/awt/geom/class-use/Rectangle2D.html#javax.swing.text)            The Rectangle2D class describes a rectangle defined by a location (x,y) and dimension (w x h). |
| [**RectangularShape**](http://docs.google.com/java/awt/geom/class-use/RectangularShape.html#javax.swing.text)            RectangularShape is the base class for a number of [Shape](http://docs.google.com/java/awt/Shape.html) objects whose geometry is defined by a rectangular frame. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **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/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.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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