| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GeneralPath.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/awt/geom/FlatteningPathIterator.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/geom/IllegalPathStateException.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/geom/GeneralPath.html)    [**NO FRAMES**](http://docs.google.com/GeneralPath.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) | DETAIL: FIELD | [CONSTR](#26in1rg) | METHOD |

## **java.awt.geom**

Class GeneralPath

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.awt.geom.Path2D](http://docs.google.com/java/awt/geom/Path2D.html)  
 [java.awt.geom.Path2D.Float](http://docs.google.com/java/awt/geom/Path2D.Float.html)  
 **java.awt.geom.GeneralPath**

**All Implemented Interfaces:** [Shape](http://docs.google.com/java/awt/Shape.html), [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html)

public final class **GeneralPath**extends [Path2D.Float](http://docs.google.com/java/awt/geom/Path2D.Float.html)

The GeneralPath class represents a geometric path constructed from straight lines, and quadratic and cubic (Bézier) curves. It can contain multiple subpaths.

GeneralPath is a legacy final class which exactly implements the behavior of its superclass [Path2D.Float](http://docs.google.com/java/awt/geom/Path2D.Float.html). Together with [Path2D.Double](http://docs.google.com/java/awt/geom/Path2D.Double.html), the [Path2D](http://docs.google.com/java/awt/geom/Path2D.html) classes provide full implementations of a general geometric path that support all of the functionality of the [Shape](http://docs.google.com/java/awt/Shape.html) and [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) interfaces with the ability to explicitly select different levels of internal coordinate precision.

Use Path2D.Float (or this legacy GeneralPath subclass) when dealing with data that can be represented and used with floating point precision. Use Path2D.Double for data that requires the accuracy or range of double precision.

**Since:** 1.2 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.awt.geom.GeneralPath)

| **Nested Class Summary** | |
| --- | --- |

| **Nested classes/interfaces inherited from class java.awt.geom.**[**Path2D**](http://docs.google.com/java/awt/geom/Path2D.html) |
| --- |
| [Path2D.Double](http://docs.google.com/java/awt/geom/Path2D.Double.html), [Path2D.Float](http://docs.google.com/java/awt/geom/Path2D.Float.html) |

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.awt.geom.**[**Path2D**](http://docs.google.com/java/awt/geom/Path2D.html) |
| --- |
| [WIND\_EVEN\_ODD](http://docs.google.com/java/awt/geom/Path2D.html#WIND_EVEN_ODD), [WIND\_NON\_ZERO](http://docs.google.com/java/awt/geom/Path2D.html#WIND_NON_ZERO) |

| **Constructor Summary** | |
| --- | --- |
| [**GeneralPath**](http://docs.google.com/java/awt/geom/GeneralPath.html#GeneralPath())()            Constructs a new empty single precision GeneralPath object with a default winding rule of [Path2D.WIND\_NON\_ZERO](http://docs.google.com/java/awt/geom/Path2D.html#WIND_NON_ZERO). |
| [**GeneralPath**](http://docs.google.com/java/awt/geom/GeneralPath.html#GeneralPath(int))(int rule)            Constructs a new GeneralPath object with the specified winding rule to control operations that require the interior of the path to be defined. |
| [**GeneralPath**](http://docs.google.com/java/awt/geom/GeneralPath.html#GeneralPath(int,%20int))(int rule, int initialCapacity)            Constructs a new GeneralPath object with the specified winding rule and the specified initial capacity to store path coordinates. |
| [**GeneralPath**](http://docs.google.com/java/awt/geom/GeneralPath.html#GeneralPath(java.awt.Shape))([Shape](http://docs.google.com/java/awt/Shape.html) s)            Constructs a new GeneralPath object from an arbitrary [Shape](http://docs.google.com/java/awt/Shape.html) object. |

| **Method Summary** | |
| --- | --- |

| **Methods inherited from class java.awt.geom.**[**Path2D.Float**](http://docs.google.com/java/awt/geom/Path2D.Float.html) |
| --- |
| [append](http://docs.google.com/java/awt/geom/Path2D.Float.html#append(java.awt.geom.PathIterator,%20boolean)), [clone](http://docs.google.com/java/awt/geom/Path2D.Float.html#clone()), [curveTo](http://docs.google.com/java/awt/geom/Path2D.Float.html#curveTo(double,%20double,%20double,%20double,%20double,%20double)), [curveTo](http://docs.google.com/java/awt/geom/Path2D.Float.html#curveTo(float,%20float,%20float,%20float,%20float,%20float)), [getBounds2D](http://docs.google.com/java/awt/geom/Path2D.Float.html#getBounds2D()), [getPathIterator](http://docs.google.com/java/awt/geom/Path2D.Float.html#getPathIterator(java.awt.geom.AffineTransform)), [lineTo](http://docs.google.com/java/awt/geom/Path2D.Float.html#lineTo(double,%20double)), [lineTo](http://docs.google.com/java/awt/geom/Path2D.Float.html#lineTo(float,%20float)), [moveTo](http://docs.google.com/java/awt/geom/Path2D.Float.html#moveTo(double,%20double)), [moveTo](http://docs.google.com/java/awt/geom/Path2D.Float.html#moveTo(float,%20float)), [quadTo](http://docs.google.com/java/awt/geom/Path2D.Float.html#quadTo(double,%20double,%20double,%20double)), [quadTo](http://docs.google.com/java/awt/geom/Path2D.Float.html#quadTo(float,%20float,%20float,%20float)), [transform](http://docs.google.com/java/awt/geom/Path2D.Float.html#transform(java.awt.geom.AffineTransform)) |

| **Methods inherited from class java.awt.geom.**[**Path2D**](http://docs.google.com/java/awt/geom/Path2D.html) |
| --- |
| [append](http://docs.google.com/java/awt/geom/Path2D.html#append(java.awt.Shape,%20boolean)), [closePath](http://docs.google.com/java/awt/geom/Path2D.html#closePath()), [contains](http://docs.google.com/java/awt/geom/Path2D.html#contains(double,%20double)), [contains](http://docs.google.com/java/awt/geom/Path2D.html#contains(double,%20double,%20double,%20double)), [contains](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.PathIterator,%20double,%20double)), [contains](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.PathIterator,%20double,%20double,%20double,%20double)), [contains](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.PathIterator,%20java.awt.geom.Point2D)), [contains](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.PathIterator,%20java.awt.geom.Rectangle2D)), [contains](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.Point2D)), [contains](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.Rectangle2D)), [createTransformedShape](http://docs.google.com/java/awt/geom/Path2D.html#createTransformedShape(java.awt.geom.AffineTransform)), [getBounds](http://docs.google.com/java/awt/geom/Path2D.html#getBounds()), [getCurrentPoint](http://docs.google.com/java/awt/geom/Path2D.html#getCurrentPoint()), [getPathIterator](http://docs.google.com/java/awt/geom/Path2D.html#getPathIterator(java.awt.geom.AffineTransform,%20double)), [getWindingRule](http://docs.google.com/java/awt/geom/Path2D.html#getWindingRule()), [intersects](http://docs.google.com/java/awt/geom/Path2D.html#intersects(double,%20double,%20double,%20double)), [intersects](http://docs.google.com/java/awt/geom/Path2D.html#intersects(java.awt.geom.PathIterator,%20double,%20double,%20double,%20double)), [intersects](http://docs.google.com/java/awt/geom/Path2D.html#intersects(java.awt.geom.PathIterator,%20java.awt.geom.Rectangle2D)), [intersects](http://docs.google.com/java/awt/geom/Path2D.html#intersects(java.awt.geom.Rectangle2D)), [reset](http://docs.google.com/java/awt/geom/Path2D.html#reset()), [setWindingRule](http://docs.google.com/java/awt/geom/Path2D.html#setWindingRule(int)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

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

### GeneralPath

public **GeneralPath**()

Constructs a new empty single precision GeneralPath object with a default winding rule of [Path2D.WIND\_NON\_ZERO](http://docs.google.com/java/awt/geom/Path2D.html#WIND_NON_ZERO).

**Since:** 1.2

### GeneralPath

public **GeneralPath**(int rule)

Constructs a new GeneralPath object with the specified winding rule to control operations that require the interior of the path to be defined.

**Parameters:**rule - the winding rule**Since:** 1.2 **See Also:**[Path2D.WIND\_EVEN\_ODD](http://docs.google.com/java/awt/geom/Path2D.html#WIND_EVEN_ODD), [Path2D.WIND\_NON\_ZERO](http://docs.google.com/java/awt/geom/Path2D.html#WIND_NON_ZERO)

### GeneralPath

public **GeneralPath**(int rule,  
 int initialCapacity)

Constructs a new GeneralPath object with the specified winding rule and the specified initial capacity to store path coordinates. This number is an initial guess as to how many path segments will be added to the path, but the storage is expanded as needed to store whatever path segments are added.

**Parameters:**rule - the winding ruleinitialCapacity - the estimate for the number of path segments in the path**Since:** 1.2 **See Also:**[Path2D.WIND\_EVEN\_ODD](http://docs.google.com/java/awt/geom/Path2D.html#WIND_EVEN_ODD), [Path2D.WIND\_NON\_ZERO](http://docs.google.com/java/awt/geom/Path2D.html#WIND_NON_ZERO)

### GeneralPath

public **GeneralPath**([Shape](http://docs.google.com/java/awt/Shape.html) s)

Constructs a new GeneralPath object from an arbitrary [Shape](http://docs.google.com/java/awt/Shape.html) object. All of the initial geometry and the winding rule for this path are taken from the specified Shape object.

**Parameters:**s - the specified Shape object**Since:** 1.2

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/GeneralPath.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/awt/geom/FlatteningPathIterator.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/geom/IllegalPathStateException.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/geom/GeneralPath.html)    [**NO FRAMES**](http://docs.google.com/GeneralPath.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) | DETAIL: FIELD | [CONSTR](#26in1rg) | METHOD |

[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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