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

**Uses of Interface**

**java.awt.geom.PathIterator**

| Packages that use [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | |
| --- | --- |
| [**java.awt**](#3znysh7) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.geom**](#2et92p0) | Provides the Java 2D classes for defining and performing operations on objects related to two-dimensional geometry. |

| Uses of [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
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| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) that return [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | |
| --- | --- |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Polygon.**[**getPathIterator**](http://docs.google.com/java/awt/Polygon.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iterator object that iterates along the boundary of this Polygon and provides access to the geometry of the outline of this Polygon. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Shape.**[**getPathIterator**](http://docs.google.com/java/awt/Shape.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iterator object that iterates along the Shape boundary and provides access to the geometry of the Shape outline. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Polygon.**[**getPathIterator**](http://docs.google.com/java/awt/Polygon.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Returns an iterator object that iterates along the boundary of the Shape and provides access to the geometry of the outline of the Shape. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Shape.**[**getPathIterator**](http://docs.google.com/java/awt/Shape.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Returns an iterator object that iterates along the Shape boundary and provides access to a flattened view of the Shape outline geometry. |

| Uses of [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) | |
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| Classes in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) that implement [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | |
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| class | [**FlatteningPathIterator**](http://docs.google.com/java/awt/geom/FlatteningPathIterator.html)            The FlatteningPathIterator class returns a flattened view of another [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) object. |

| Methods in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) that return [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | |
| --- | --- |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Rectangle2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Rectangle2D.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iteration object that defines the boundary of this Rectangle2D. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **RoundRectangle2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/RoundRectangle2D.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iteration object that defines the boundary of this RoundRectangle2D. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **QuadCurve2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/QuadCurve2D.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iteration object that defines the boundary of the shape of this QuadCurve2D. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Ellipse2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Ellipse2D.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iteration object that defines the boundary of this Ellipse2D. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **CubicCurve2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/CubicCurve2D.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iteration object that defines the boundary of the shape. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Area.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Area.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Creates a [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) for the outline of this Area object. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Arc2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Arc2D.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iteration object that defines the boundary of the arc. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Path2D.Float.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Path2D.Float.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iterator object that iterates along the Shape boundary and provides access to the geometry of the Shape outline. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Path2D.Double.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Path2D.Double.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iterator object that iterates along the Shape boundary and provides access to the geometry of the Shape outline. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Line2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Line2D.html#getPathIterator(java.awt.geom.AffineTransform))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at)            Returns an iteration object that defines the boundary of this Line2D. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Rectangle2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Rectangle2D.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Returns an iteration object that defines the boundary of the flattened Rectangle2D. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **QuadCurve2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/QuadCurve2D.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Returns an iteration object that defines the boundary of the flattened shape of this QuadCurve2D. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **CubicCurve2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/CubicCurve2D.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Return an iteration object that defines the boundary of the flattened shape. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Area.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Area.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Creates a PathIterator for the flattened outline of this Area object. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Path2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Path2D.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Returns an iterator object that iterates along the Shape boundary and provides access to a flattened view of the Shape outline geometry. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **Line2D.**[**getPathIterator**](http://docs.google.com/java/awt/geom/Line2D.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Returns an iteration object that defines the boundary of this flattened Line2D. |
| [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | **RectangularShape.**[**getPathIterator**](http://docs.google.com/java/awt/geom/RectangularShape.html#getPathIterator(java.awt.geom.AffineTransform,%20double))([AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) at, double flatness)            Returns an iterator object that iterates along the Shape object's boundary and provides access to a flattened view of the outline of the Shape object's geometry. |

| Methods in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) with parameters of type [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | |
| --- | --- |
| abstract  void | **Path2D.**[**append**](http://docs.google.com/java/awt/geom/Path2D.html#append(java.awt.geom.PathIterator,%20boolean))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, boolean connect)            Appends the geometry of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) object to the path, possibly connecting the new geometry to the existing path segments with a line segment. |
| void | **Path2D.Float.**[**append**](http://docs.google.com/java/awt/geom/Path2D.Float.html#append(java.awt.geom.PathIterator,%20boolean))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, boolean connect)            Appends the geometry of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) object to the path, possibly connecting the new geometry to the existing path segments with a line segment. |
| void | **Path2D.Double.**[**append**](http://docs.google.com/java/awt/geom/Path2D.Double.html#append(java.awt.geom.PathIterator,%20boolean))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, boolean connect)            Appends the geometry of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) object to the path, possibly connecting the new geometry to the existing path segments with a line segment. |
| static boolean | **Path2D.**[**contains**](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.PathIterator,%20double,%20double))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, double x, double y)            Tests if the specified coordinates are inside the closed boundary of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html). |
| static boolean | **Path2D.**[**contains**](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.PathIterator,%20double,%20double,%20double,%20double))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, double x, double y, double w, double h)            Tests if the specified rectangular area is entirely inside the closed boundary of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html). |
| static boolean | **Path2D.**[**contains**](http://docs.google.com/java/awt/geom/Path2D.html#contains(java.awt.geom.PathIterator,%20java.awt.geom.Point2D))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, [Point2D](http://docs.google.com/java/awt/geom/Point2D.html) p)            Tests if the specified [Point2D](http://docs.google.com/java/awt/geom/Point2D.html) is inside the closed boundary of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html). |
| 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). |
| static boolean | **Path2D.**[**intersects**](http://docs.google.com/java/awt/geom/Path2D.html#intersects(java.awt.geom.PathIterator,%20double,%20double,%20double,%20double))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) pi, double x, double y, double w, double h)            Tests if the interior of the specified [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) intersects the interior of a specified set of rectangular coordinates. |
| 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). |

| Constructors in [java.awt.geom](http://docs.google.com/java/awt/geom/package-summary.html) with parameters of type [PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) | |
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| [**FlatteningPathIterator**](http://docs.google.com/java/awt/geom/FlatteningPathIterator.html#FlatteningPathIterator(java.awt.geom.PathIterator,%20double))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) src, double flatness)            Constructs a new FlatteningPathIterator object that flattens a path as it iterates over it. |
| [**FlatteningPathIterator**](http://docs.google.com/java/awt/geom/FlatteningPathIterator.html#FlatteningPathIterator(java.awt.geom.PathIterator,%20double,%20int))([PathIterator](http://docs.google.com/java/awt/geom/PathIterator.html) src, double flatness, int limit)            Constructs a new FlatteningPathIterator object that flattens a path as it iterates over it. |

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