| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Point2D.Double.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/Point2D.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/geom/Point2D.Float.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/geom/Point2D.Double.html)    [**NO FRAMES**](http://docs.google.com/Point2D.Double.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#tyjcwt) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#17dp8vu) | [CONSTR](#lnxbz9) | [METHOD](#44sinio) |

## **java.awt.geom**

Class Point2D.Double

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.awt.geom.Point2D](http://docs.google.com/java/awt/geom/Point2D.html)  
 **java.awt.geom.Point2D.Double**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html) **Enclosing class:**[Point2D](http://docs.google.com/java/awt/geom/Point2D.html)

public static class **Point2D.Double**extends [Point2D](http://docs.google.com/java/awt/geom/Point2D.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

The Double class defines a point specified in double precision.

**Since:** 1.2 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.awt.geom.Point2D.Double)

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

| **Nested classes/interfaces inherited from class java.awt.geom.**[**Point2D**](http://docs.google.com/java/awt/geom/Point2D.html) |
| --- |
| [Point2D.Double](http://docs.google.com/java/awt/geom/Point2D.Double.html), [Point2D.Float](http://docs.google.com/java/awt/geom/Point2D.Float.html) |

| **Field Summary** | |
| --- | --- |
| double | [**x**](http://docs.google.com/java/awt/geom/Point2D.Double.html#x)            The X coordinate of this Point2D. |
| double | [**y**](http://docs.google.com/java/awt/geom/Point2D.Double.html#y)            The Y coordinate of this Point2D. |

| **Constructor Summary** | |
| --- | --- |
| [**Point2D.Double**](http://docs.google.com/java/awt/geom/Point2D.Double.html#Point2D.Double())()            Constructs and initializes a Point2D with coordinates (0, 0). |
| [**Point2D.Double**](http://docs.google.com/java/awt/geom/Point2D.Double.html#Point2D.Double(double,%20double))(double x, double y)            Constructs and initializes a Point2D with the specified coordinates. |

| **Method Summary** | |
| --- | --- |
| double | [**getX**](http://docs.google.com/java/awt/geom/Point2D.Double.html#getX())()            Returns the X coordinate of this Point2D in double precision. |
| double | [**getY**](http://docs.google.com/java/awt/geom/Point2D.Double.html#getY())()            Returns the Y coordinate of this Point2D in double precision. |
| void | [**setLocation**](http://docs.google.com/java/awt/geom/Point2D.Double.html#setLocation(double,%20double))(double x, double y)            Sets the location of this Point2D to the specified double coordinates. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/awt/geom/Point2D.Double.html#toString())()            Returns a String that represents the value of this Point2D. |

| **Methods inherited from class java.awt.geom.**[**Point2D**](http://docs.google.com/java/awt/geom/Point2D.html) |
| --- |
| [clone](http://docs.google.com/java/awt/geom/Point2D.html#clone()), [distance](http://docs.google.com/java/awt/geom/Point2D.html#distance(double,%20double)), [distance](http://docs.google.com/java/awt/geom/Point2D.html#distance(double,%20double,%20double,%20double)), [distance](http://docs.google.com/java/awt/geom/Point2D.html#distance(java.awt.geom.Point2D)), [distanceSq](http://docs.google.com/java/awt/geom/Point2D.html#distanceSq(double,%20double)), [distanceSq](http://docs.google.com/java/awt/geom/Point2D.html#distanceSq(double,%20double,%20double,%20double)), [distanceSq](http://docs.google.com/java/awt/geom/Point2D.html#distanceSq(java.awt.geom.Point2D)), [equals](http://docs.google.com/java/awt/geom/Point2D.html#equals(java.lang.Object)), [hashCode](http://docs.google.com/java/awt/geom/Point2D.html#hashCode()), [setLocation](http://docs.google.com/java/awt/geom/Point2D.html#setLocation(java.awt.geom.Point2D)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [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)) |

| **Field Detail** |
| --- |

### x

public double **x**

The X coordinate of this Point2D.

**Since:** 1.2

### y

public double **y**

The Y coordinate of this Point2D.

**Since:** 1.2

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

### Point2D.Double

public **Point2D.Double**()

Constructs and initializes a Point2D with coordinates (0, 0).

**Since:** 1.2

### Point2D.Double

public **Point2D.Double**(double x,  
 double y)

Constructs and initializes a Point2D with the specified coordinates.

**Parameters:**x - the X coordinate of the newly constructed Point2Dy - the Y coordinate of the newly constructed Point2D**Since:** 1.2

| **Method Detail** |
| --- |

### getX

public double **getX**()

Returns the X coordinate of this Point2D in double precision.

**Specified by:**[getX](http://docs.google.com/java/awt/geom/Point2D.html#getX()) in class [Point2D](http://docs.google.com/java/awt/geom/Point2D.html) **Returns:**the X coordinate of this Point2D.**Since:** 1.2

### getY

public double **getY**()

Returns the Y coordinate of this Point2D in double precision.

**Specified by:**[getY](http://docs.google.com/java/awt/geom/Point2D.html#getY()) in class [Point2D](http://docs.google.com/java/awt/geom/Point2D.html) **Returns:**the Y coordinate of this Point2D.**Since:** 1.2

### setLocation

public void **setLocation**(double x,  
 double y)

Sets the location of this Point2D to the specified double coordinates.

**Specified by:**[setLocation](http://docs.google.com/java/awt/geom/Point2D.html#setLocation(double,%20double)) in class [Point2D](http://docs.google.com/java/awt/geom/Point2D.html) **Parameters:**x - the new X coordinate of this Point2Dy - the new Y coordinate of this Point2D**Since:** 1.2

### toString

public [String](http://docs.google.com/java/lang/String.html) **toString**()

Returns a String that represents the value of this Point2D.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of this Point2D.**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/Point2D.Double.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*** |
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[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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