| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MultipleGradientPaint.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/MouseInfo.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/MultipleGradientPaint.ColorSpaceType.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/MultipleGradientPaint.html)    [**NO FRAMES**](http://docs.google.com/MultipleGradientPaint.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | FIELD | CONSTR | [METHOD](#3dy6vkm) | DETAIL: FIELD | CONSTR | [METHOD](#2s8eyo1) |

## **java.awt**

Class MultipleGradientPaint

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

**All Implemented Interfaces:** [Paint](http://docs.google.com/java/awt/Paint.html), [Transparency](http://docs.google.com/java/awt/Transparency.html) **Direct Known Subclasses:** [LinearGradientPaint](http://docs.google.com/java/awt/LinearGradientPaint.html), [RadialGradientPaint](http://docs.google.com/java/awt/RadialGradientPaint.html)

public abstract class **MultipleGradientPaint**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Paint](http://docs.google.com/java/awt/Paint.html)

This is the superclass for Paints which use a multiple color gradient to fill in their raster. It provides storage for variables and enumerated values common to LinearGradientPaint and RadialGradientPaint.

**Since:** 1.6

| **Nested Class Summary** | |
| --- | --- |
| static class | [**MultipleGradientPaint.ColorSpaceType**](http://docs.google.com/java/awt/MultipleGradientPaint.ColorSpaceType.html)            The color space in which to perform the gradient interpolation. |
| static class | [**MultipleGradientPaint.CycleMethod**](http://docs.google.com/java/awt/MultipleGradientPaint.CycleMethod.html)            The method to use when painting outside the gradient bounds. |

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

| **Fields inherited from interface java.awt.**[**Transparency**](http://docs.google.com/java/awt/Transparency.html) |
| --- |
| [BITMASK](http://docs.google.com/java/awt/Transparency.html#BITMASK), [OPAQUE](http://docs.google.com/java/awt/Transparency.html#OPAQUE), [TRANSLUCENT](http://docs.google.com/java/awt/Transparency.html#TRANSLUCENT) |

| **Method Summary** | |
| --- | --- |
| [Color](http://docs.google.com/java/awt/Color.html)[] | [**getColors**](http://docs.google.com/java/awt/MultipleGradientPaint.html#getColors())()            Returns a copy of the array of colors used by this gradient. |
| [MultipleGradientPaint.ColorSpaceType](http://docs.google.com/java/awt/MultipleGradientPaint.ColorSpaceType.html) | [**getColorSpace**](http://docs.google.com/java/awt/MultipleGradientPaint.html#getColorSpace())()            Returns the enumerated type which specifies color space for interpolation. |
| [MultipleGradientPaint.CycleMethod](http://docs.google.com/java/awt/MultipleGradientPaint.CycleMethod.html) | [**getCycleMethod**](http://docs.google.com/java/awt/MultipleGradientPaint.html#getCycleMethod())()            Returns the enumerated type which specifies cycling behavior. |
| float[] | [**getFractions**](http://docs.google.com/java/awt/MultipleGradientPaint.html#getFractions())()            Returns a copy of the array of floats used by this gradient to calculate color distribution. |
| [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) | [**getTransform**](http://docs.google.com/java/awt/MultipleGradientPaint.html#getTransform())()            Returns a copy of the transform applied to the gradient. |
| int | [**getTransparency**](http://docs.google.com/java/awt/MultipleGradientPaint.html#getTransparency())()            Returns the transparency mode for this Paint object. |

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

| **Methods inherited from interface java.awt.**[**Paint**](http://docs.google.com/java/awt/Paint.html) |
| --- |
| [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)) |

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

### getFractions

public final float[] **getFractions**()

Returns a copy of the array of floats used by this gradient to calculate color distribution. The returned array always has 0 as its first value and 1 as its last value, with increasing values in between.

**Returns:**a copy of the array of floats used by this gradient to calculate color distribution

### getColors

public final [Color](http://docs.google.com/java/awt/Color.html)[] **getColors**()

Returns a copy of the array of colors used by this gradient. The first color maps to the first value in the fractions array, and the last color maps to the last value in the fractions array.

**Returns:**a copy of the array of colors used by this gradient

### getCycleMethod

public final [MultipleGradientPaint.CycleMethod](http://docs.google.com/java/awt/MultipleGradientPaint.CycleMethod.html) **getCycleMethod**()

Returns the enumerated type which specifies cycling behavior.

**Returns:**the enumerated type which specifies cycling behavior

### getColorSpace

public final [MultipleGradientPaint.ColorSpaceType](http://docs.google.com/java/awt/MultipleGradientPaint.ColorSpaceType.html) **getColorSpace**()

Returns the enumerated type which specifies color space for interpolation.

**Returns:**the enumerated type which specifies color space for interpolation

### getTransform

public final [AffineTransform](http://docs.google.com/java/awt/geom/AffineTransform.html) **getTransform**()

Returns a copy of the transform applied to the gradient.

**Returns:**a copy of the transform applied to the gradient

### getTransparency

public final int **getTransparency**()

Returns the transparency mode for this Paint object.

**Specified by:**[getTransparency](http://docs.google.com/java/awt/Transparency.html#getTransparency()) in interface [Transparency](http://docs.google.com/java/awt/Transparency.html) **Returns:**an integer value representing the transparency mode for this Paint object**See Also:**[Transparency](http://docs.google.com/java/awt/Transparency.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MultipleGradientPaint.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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| SUMMARY: [NESTED](#3znysh7) | FIELD | CONSTR | [METHOD](#3dy6vkm) | DETAIL: FIELD | CONSTR | [METHOD](#2s8eyo1) |

[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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