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

**Uses of Class**

**java.awt.color.ColorSpace**

| Packages that use [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | |
| --- | --- |
| [**java.awt**](#3znysh7) | Contains all of the classes for creating user interfaces and for painting graphics and images. |
| [**java.awt.color**](#2et92p0) | Provides classes for color spaces. |
| [**java.awt.image**](#tyjcwt) | Provides classes for creating and modifying images. |
| [**javax.imageio**](#3dy6vkm) | The main package of the Java Image I/O API. |

| Uses of [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) in [java.awt](http://docs.google.com/java/awt/package-summary.html) | |
| --- | --- |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) that return [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | |
| --- | --- |
| [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | **Color.**[**getColorSpace**](http://docs.google.com/java/awt/Color.html#getColorSpace())()            Returns the ColorSpace of this Color. |

| Methods in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | |
| --- | --- |
| float[] | **Color.**[**getColorComponents**](http://docs.google.com/java/awt/Color.html#getColorComponents(java.awt.color.ColorSpace,%20float%5B%5D))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) cspace, float[] compArray)            Returns a float array containing only the color components of the Color in the ColorSpace specified by the cspace parameter. |
| float[] | **Color.**[**getComponents**](http://docs.google.com/java/awt/Color.html#getComponents(java.awt.color.ColorSpace,%20float%5B%5D))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) cspace, float[] compArray)            Returns a float array containing the color and alpha components of the Color, in the ColorSpace specified by the cspace parameter. |

| Constructors in [java.awt](http://docs.google.com/java/awt/package-summary.html) with parameters of type [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | |
| --- | --- |
| [**Color**](http://docs.google.com/java/awt/Color.html#Color(java.awt.color.ColorSpace,%20float%5B%5D,%20float))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) cspace, float[] components, float alpha)            Creates a color in the specified ColorSpace with the color components specified in the float array and the specified alpha. |

| Uses of [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) in [java.awt.color](http://docs.google.com/java/awt/color/package-summary.html) | |
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| Subclasses of [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) in [java.awt.color](http://docs.google.com/java/awt/color/package-summary.html) | |
| --- | --- |
| class | [**ICC\_ColorSpace**](http://docs.google.com/java/awt/color/ICC_ColorSpace.html)            The ICC\_ColorSpace class is an implementation of the abstract ColorSpace class. |

| Methods in [java.awt.color](http://docs.google.com/java/awt/color/package-summary.html) that return [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | |
| --- | --- |
| static [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | **ColorSpace.**[**getInstance**](http://docs.google.com/java/awt/color/ColorSpace.html#getInstance(int))(int colorspace)            Returns a ColorSpace representing one of the specific predefined color spaces. |

| Uses of [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) | |
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| Methods in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) that return [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | |
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| [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | **ColorModel.**[**getColorSpace**](http://docs.google.com/java/awt/image/ColorModel.html#getColorSpace())()            Returns the ColorSpace associated with this ColorModel. |

| Constructors in [java.awt.image](http://docs.google.com/java/awt/image/package-summary.html) with parameters of type [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | |
| --- | --- |
| [**ColorConvertOp**](http://docs.google.com/java/awt/image/ColorConvertOp.html#ColorConvertOp(java.awt.color.ColorSpace,%20java.awt.color.ColorSpace,%20java.awt.RenderingHints))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) srcCspace, [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) dstCspace, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Constructs a new ColorConvertOp from two ColorSpace objects. |
| [**ColorConvertOp**](http://docs.google.com/java/awt/image/ColorConvertOp.html#ColorConvertOp(java.awt.color.ColorSpace,%20java.awt.RenderingHints))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) cspace, [RenderingHints](http://docs.google.com/java/awt/RenderingHints.html) hints)            Constructs a new ColorConvertOp from a ColorSpace object. |
| [**ColorModel**](http://docs.google.com/java/awt/image/ColorModel.html#ColorModel(int,%20int%5B%5D,%20java.awt.color.ColorSpace,%20boolean,%20boolean,%20int,%20int))(int pixel\_bits, int[] bits, [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) cspace, boolean hasAlpha, boolean isAlphaPremultiplied, int transparency, int transferType)            Constructs a ColorModel that translates pixel values to color/alpha components. |
| [**ComponentColorModel**](http://docs.google.com/java/awt/image/ComponentColorModel.html#ComponentColorModel(java.awt.color.ColorSpace,%20boolean,%20boolean,%20int,%20int))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) colorSpace, boolean hasAlpha, boolean isAlphaPremultiplied, int transparency, int transferType)            Constructs a ComponentColorModel from the specified parameters. |
| [**ComponentColorModel**](http://docs.google.com/java/awt/image/ComponentColorModel.html#ComponentColorModel(java.awt.color.ColorSpace,%20int%5B%5D,%20boolean,%20boolean,%20int,%20int))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) colorSpace, int[] bits, boolean hasAlpha, boolean isAlphaPremultiplied, int transparency, int transferType)            Constructs a ComponentColorModel from the specified parameters. |
| [**DirectColorModel**](http://docs.google.com/java/awt/image/DirectColorModel.html#DirectColorModel(java.awt.color.ColorSpace,%20int,%20int,%20int,%20int,%20int,%20boolean,%20int))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) space, int bits, int rmask, int gmask, int bmask, int amask, boolean isAlphaPremultiplied, int transferType)            Constructs a DirectColorModel from the specified parameters. |
| [**PackedColorModel**](http://docs.google.com/java/awt/image/PackedColorModel.html#PackedColorModel(java.awt.color.ColorSpace,%20int,%20int%5B%5D,%20int,%20boolean,%20int,%20int))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) space, int bits, int[] colorMaskArray, int alphaMask, boolean isAlphaPremultiplied, int trans, int transferType)            Constructs a PackedColorModel from a color mask array, which specifies which bits in an int pixel representation contain each of the color samples, and an alpha mask. |
| [**PackedColorModel**](http://docs.google.com/java/awt/image/PackedColorModel.html#PackedColorModel(java.awt.color.ColorSpace,%20int,%20int,%20int,%20int,%20int,%20boolean,%20int,%20int))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) space, int bits, int rmask, int gmask, int bmask, int amask, boolean isAlphaPremultiplied, int trans, int transferType)            Constructs a PackedColorModel from the specified masks which indicate which bits in an int pixel representation contain the alpha, red, green and blue color samples. |

| Uses of [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) | |
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| Methods in [javax.imageio](http://docs.google.com/javax/imageio/package-summary.html) with parameters of type [ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) | |
| --- | --- |
| static [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) | **ImageTypeSpecifier.**[**createBanded**](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html#createBanded(java.awt.color.ColorSpace,%20int%5B%5D,%20int%5B%5D,%20int,%20boolean,%20boolean))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) colorSpace, int[] bankIndices, int[] bandOffsets, int dataType, boolean hasAlpha, boolean isAlphaPremultiplied)            Returns a specifier for a banded image format that will use a ComponentColorModel and a BandedSampleModel to store each channel in a separate array. |
| static [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) | **ImageTypeSpecifier.**[**createInterleaved**](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html#createInterleaved(java.awt.color.ColorSpace,%20int%5B%5D,%20int,%20boolean,%20boolean))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) colorSpace, int[] bandOffsets, int dataType, boolean hasAlpha, boolean isAlphaPremultiplied)            Returns a specifier for an interleaved image format that will use a ComponentColorModel and a PixelInterleavedSampleModel to store each pixel component in a separate byte, short, or int. |
| static [ImageTypeSpecifier](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html) | **ImageTypeSpecifier.**[**createPacked**](http://docs.google.com/javax/imageio/ImageTypeSpecifier.html#createPacked(java.awt.color.ColorSpace,%20int,%20int,%20int,%20int,%20int,%20boolean))([ColorSpace](http://docs.google.com/java/awt/color/ColorSpace.html) colorSpace, int redMask, int greenMask, int blueMask, int alphaMask, int transferType, boolean isAlphaPremultiplied)            Returns a specifier for a packed image format that will use a DirectColorModel and a packed SampleModel to store each pixel packed into in a single byte, short, or int. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/awt/color/ColorSpace.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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[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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