

COLORS IN JAVA

To support different colors Java package comes with the **Color class**. The Color class states colors in the default sRGB color space or colors in arbitrary color spaces identified by a ColorSpace.

Color class static color variables available are:

Color.black	Color.lightGray
Color.blue	Color.magenta
Color.cyan	Color.orange
Color.darkGray	Color.pink
Color.gray	Color.red
Color.green	Color.white
Color.yellow	

Color class constructor

Color(float r, float g, float b) – create color with specified red, green, and blue values in the range (0.0 - 1.0)

Color(int r, int g, int b)- create color with the specified red, green, and blue values in the range (0 - 255).

Some of the commonly used methods supported by the Color class are as follows.

Method	Description
int getRed()	Returns the red component in the range 0-255 in the default sRGB space.
int getGreen()	Returns the green component in the range 0-255 in the default sRGB space.
int getBlue()	Returns the blue component in the range 0-255 in the default sRGB space.
Color getHSBColor(float h, float s, float b)	Creates a Color object based on the specified values for the HSB color model.

The current graphics color can be changed using setColor() method defined in Graphics class.

```
void setColor(Color newColor) // newColor indicates new drawing color
```

The current color detail can be obtained using getColor() method. Its syntax is.

```
Color getColor()
```

Example:

```
import java.awt.*;
import java.applet.*;
/*
<applet code="ColorDemo" width=350 height=300>
</applet>
*/
public class ColorDemo extends Applet {
```

```
public void init() {  
setBackground(Color.CYAN);  
}  
public void paint(Graphics g) {  
    g.setColor(Color.red);    // predefined color  
    g.drawRect(50, 100, 150, 100); // rectangle outline is red color  
    Color clr = new Color(200, 100, 150);  
    g.setColor(clr);  
    g.fillRect(220,100, 150, 100); // rectangle filled with clr color  
}  
}
```

Sample Output:

