

# Converting Colors

`RYB(116, 88, 122)`

Have a look what the booklet for  
RYB(116, 88, 122) contains.

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# Color

**R<sub>Y</sub>B(116, 88, 122)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	74587A
RGB	116, 88, 122
RGB Percent	45%, 35%, 48%
CMY	0.5451, 0.6549, 0.5216
CMYK	0.05, 0.28, 0.00, 0.52
HSL	289°, 16%, 41%
HSV	289°, 28%, 48%
XYZ	14.2050, 12.0976, 19.9987
YIQ	100.2480, 5.7740, 16.5100

# Conversions

## Conversions Part 2

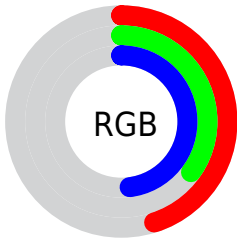
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 88, 122
Decimal	7624826
CIE Lab	41.37, 18.05, -14.77
CIE LCh	41, 23.326, 320.709
Yxy	12.0976, 0.3068, 0.2613
Android (android.graphics.Color)	4285814906 (0xFF74587A)
YUV	100.2480, 10.7237, 13.8145
Hunter-Lab	34.7816, 12.0328, -9.7435

# Details

The RYB color **116, 88, 122** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **88, 122, 116**, and the grayscale version is **100, 100, 100**.

A 20% lighter version of the original color is **168, 138, 174**, and **67, 42, 73** is the 20% darker color. If you saturate the color by 10%, you get **114, 76, 122**, and if you desaturate by 10%, it is **118, 100, 122**.

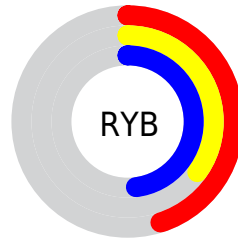
# Distribution



Red (45%)

Green (35%)

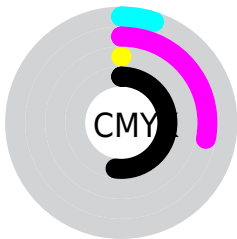
Blue (48%)



Red (45%)

Yellow (35%)

Blue (48%)

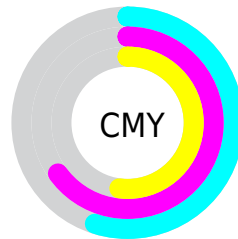


Cyan (5%)

Magenta (28%)

Yellow (0%)

Black (52%)



Cyan (55%)

Magenta (65%)

Yellow (52%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 116, 88, 122 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the RYB color 116, 88, 122 by changing the saturation by 10% instead.





116, 88, 122



116, 88, 122

255, 255, 255



91, 64, 97



168, 138, 174



67, 42, 73



196, 165, 202



44, 21, 51



224, 192, 230



26, 0, 30



253, 220, 255



0, 0, 0



255, 248, 255



116, 88, 122



116, 88, 122



114, 76, 122



118, 100, 122



112, 64, 122



120, 112, 122

■ 110, 51, 122

■ 122, 125, 125

■ 107, 39, 122

■ 122, 137, 134

■ 105, 27, 122

■ 122, 149, 144

■ 103, 15, 122

■ 122, 161, 154

■ 101, 3, 122

■ 122, 173, 164

■ 100, 0, 122

■ 122, 186, 175

■ 122, 198, 185

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



91, 95, 133



116, 88, 122



131, 83, 104

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



116, 88, 122



96, 116, 60



30, 69, 110

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



116, 88, 122



88, 122, 116

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



51, 84, 108



116, 88, 122



61, 101, 65

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



116, 88, 122



130, 97, 69



73, 105, 103



33, 74, 127

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



116, 88, 122



135, 83, 91



73, 105, 103



36, 73, 108



# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



116, 88, 122



156, 145, 158



88, 93, 122



78, 71, 79



207, 207, 207



79, 79, 79



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



116, 88, 122



149, 106, 158



122, 88, 111



60, 55, 61



103, 0, 125



208, 0, 252



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



122, 88, 94



158, 106, 115



88, 114, 122



61, 55, 56



125, 0, 22

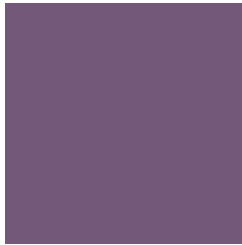


252, 0, 45



# Previews

## White Background



This preview shows how the RYB color 116, 88, 122 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the RYB color 116, 88, 122 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

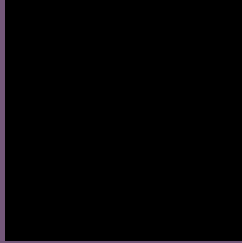
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).



## **R Y B 116, 88, 122 Background**



This preview shows how black text looks on a background with the RYB color 116, 88, 122.



This preview shows how white text looks on a background with the RYB color 116, 88, 122.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



**Original Color**

116, 88, 122

**Protanopia**

89, 96, 128

**Deuteranopia**

96, 96, 121



**Tritanopia**  
113, 92, 99

# Trichromacy



**Original Color**

116, 88, 122

**Protanomaly**

99, 94, 126

**Deuteranomaly**

103, 93, 121

**Tritanomaly**

114, 91, 107

# Monochromacy



**Original Color**

116, 88, 122

**Achromatopsia**

100, 100, 100

**Achromatomaly**

106, 96, 108

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 116, 88, 122 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color rgb(116, 88, 122) looks like.

```
.text, #text, p{  
    color:rgb(116, 88, 122)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(116, 88, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 88, 122) }
```

## Border

The CSS property to change the border of an element to RYB 116, 88, 122 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(116, 88, 122) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(116, 88, 122) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(116, 88, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(116, 88, 122); -webkit-box-shadow:4px 4px 4px 4px rgb(116, 88, 122); box-shadow:4px 4px 4px 4px rgb(116, 88, 122) }
```

# Background

The CSS property to change the background color of an element to RGB 116, 88, 122 is called "background".

The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 88, 122) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(116, 88,  
122) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).



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