

# Converting Colors

`RYB(116, 80, 224)`

Have a look what the booklet for  
RYB(116, 80, 224) contains.

<b>RYB(116, 80, 224)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	23
<i><b>Color Blindness Simulation</b></i> .....	26
<i><b>CSS Examples</b></i> .....	29

# Color

**`RYB(116, 80, 224)`**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7450E0
RGB	116, 80, 224
RGB Percent	45%, 31%, 88%
CMY	0.5451, 0.6863, 0.1216
CMYK	0.48, 0.64, 0.00, 0.12
HSL	255°, 70%, 60%
HSV	255°, 64%, 88%
XYZ	23.5257, 14.8321, 72.1440
YIQ	107.1800, -24.7680, 52.4160

# Conversions

## Conversions Part 2

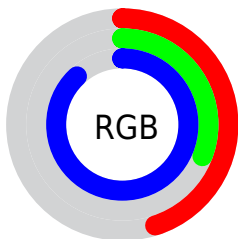
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 80, 224
Decimal	7622880
CIE <sub>Lab</sub>	45.40, 49.26, -68.49
CIE <sub>LCh</sub>	45, 84.367, 305.727
Yxy	14.8321, 0.2129, 0.1342
Android (android.graphics.Color)	4285812960 (0xFF7450E0)
YUV	107.1800, 57.5923, 7.7351
Hunter-Lab	38.5125, 41.6412, -84.1068

# Details

The RYB color **116, 80, 224** is a dark color, and the websafe version is hex **9966FF**. The color can be described as middle muted purple. A complement of this color would be **80, 224, 116**, and the grayscale version is **107, 107, 107**.

A 20% lighter version of the original color is **175, 131, 255**, and **53, 31, 168** is the 20% darker color. If you saturate the color by 10%, you get **99, 58, 224**, and if you desaturate by 10%, it is **133, 102, 224**.

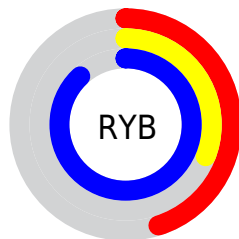
# Distribution



Red (45%)

Green (31%)

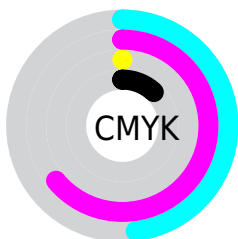
Blue (88%)



Red (45%)

Yellow (31%)

Blue (88%)

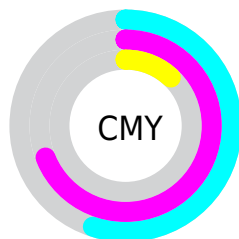


Cyan (48%)

Magenta (64%)

Yellow (0%)

Black (12%)



Cyan (55%)

Magenta (69%)


















Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 116, 80, 224 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, 80, 224 by changing the saturation by 10% instead.



 116, 80, 224	 116, 80, 224
 255, 255, 255	 86, 55, 195
 175, 131, 255	 53, 31, 168
 205, 158, 255	 0, 4, 140
 235, 185, 255	 0, 0, 114
 255, 213, 255	 0, 0, 89
 255, 242, 255	 0, 6, 64
	 0, 3, 41
	 0, 1, 19
	 0, 0, 0

■ 116, 80, 224

■ 116, 80, 224

■ 99, 58, 224

■ 133, 102, 224

■ 82, 35, 224

■ 150, 125, 224

■ 66, 13, 224

■ 166, 147, 224

■ 56, 0, 224

■ 183, 170, 224

■ 200, 192, 224

■ 217, 214, 224

■ 224, 237, 227

■ 224, 255, 229

■ 224, 255, 224

# Harmonies

## Analogous

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



0, 78, 251



116, 80, 224



198, 1, 167

# Triad

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



116, 80, 224



176, 147, 0



0, 71, 135

# Complementary

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



116, 80, 224



80, 224, 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.



0, 100, 132



116, 80, 224



12, 120, 0

# Square

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



116, 80, 224



214, 20, 28



0, 125, 92



0, 79, 189

# Rectangle

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



116, 80, 224



221, 0, 121



0, 125, 92



0, 79, 135



# Sweetspot

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



116, 80, 224



219, 207, 255



80, 142, 224



106, 98, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



116, 80, 224



108, 59, 255



188, 80, 224



104, 101, 112



44, 0, 176



12, 0, 48



# Inverse Universe

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



224, 80, 188



255, 59, 206



80, 224, 188



112, 101, 109



176, 0, 132

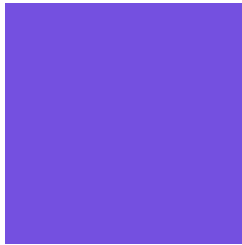


48, 0, 36



# Previews

## White Background



This preview shows how the RYB color 116, 80, 224 looks on a white background.

## Color Contrast Check

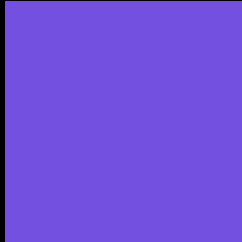
Large Text (above 18pt) WCAG AA ✓ Pass

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, 80, 224 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

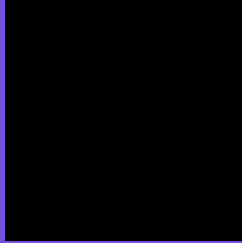
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## RYB 116, 80, 224 Background



This preview shows how black text looks on a background with the RYB color 116, 80, 224.

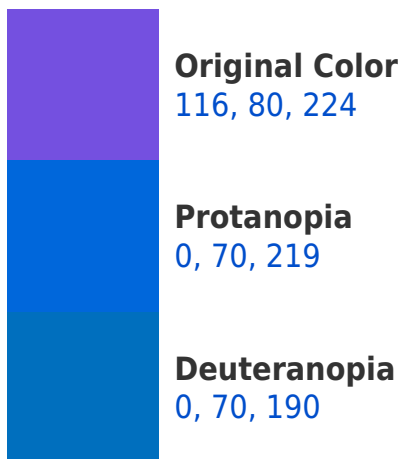


This preview shows how white text looks on a background with the RYB color 116, 80, 224.

# 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





**Tritanopia**  
87, 101, 120

# Trichromacy



**Original Color**

116, 80, 224



**Protanomaly**

42, 83, 221



**Deuteranomaly**

42, 84, 202



**Tritanomaly**

98, 100, 158

# Monochromacy



**Original Color**

116, 80, 224



**Achromatopsia**

107, 107, 107



**Achromatomaly**

110, 97, 150

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 116, 80, 224 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, 80, 224)` looks like.

```
.text, #text, p{  
    color:rgb(116, 80, 224)  
}
```

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, 80, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 80, 224) }
```

## Border

The CSS property to change the border of an element to RYB 116, 80, 224 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, 80, 224) }
```

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

```
.border{ border-color:rgb(116, 80, 224) }
```

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

Here you see how a box with a 4 pixel rgb(116, 80, 224) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 80, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 80, 224);  
box-shadow:4px 4px 4px 4px rgb(116, 80,  
224) }
```

# Background

The CSS property to change the background color of an element to RYB 116, 80, 224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 80, 224) }
```

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

```
.background{ background-color: rgb(116, 80,  
224) }
```

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](#).



Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor