

# Converting Colors

`RYB(120, 81, 239)`

Have a look what the booklet for  
RYB(120, 81, 239) contains.

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# Color

**R<sub>Y</sub>B(120, 81, 239)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7851EF
RGB	120, 81, 239
RGB Percent	47%, 32%, 94%
CMY	0.5294, 0.6824, 0.0627
CMYK	0.50, 0.66, 0.00, 0.06
HSL	255°, 83%, 63%
HSV	255°, 66%, 94%
XYZ	26.2681, 16.1099, 83.3864
YIQ	110.6730, -27.4740, 57.4060

# Conversions

## Conversions Part 2

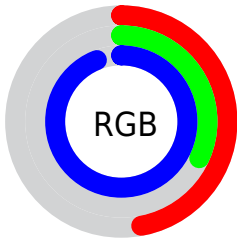
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	120, 81, 239
Decimal	7885295
CIE Lab	47.12, 53.62, -74.16
CIE LCh	47, 91.515, 305.872
Yxy	16.1099, 0.2089, 0.1281
Android (android.graphics.Color)	4286075375 (0xFF7851EF)
YUV	110.6730, 63.2652, 8.1798
Hunter-Lab	40.1372, 46.5809, -95.0811

# Details

The RYB color **120, 81, 239** 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 **81, 239, 120**, and the grayscale version is **110, 110, 110**.

A 20% lighter version of the original color is **180, 133, 255**, and **54, 31, 182** is the 20% darker color. If you saturate the color by 10%, you get **102, 57, 239**, and if you desaturate by 10%, it is **138, 105, 239**.

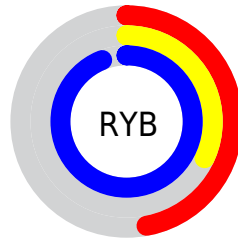
# Distribution



Red (47%)

Green (32%)

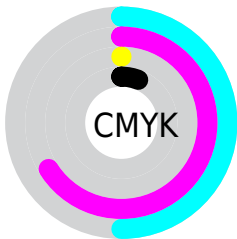
Blue (94%)



Red (47%)

Yellow (32%)

Blue (94%)

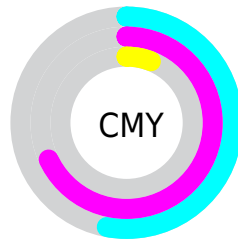


Cyan (50%)

Magenta (66%)

Yellow (0%)

Black (6%)



Cyan (53%)

Magenta (68%)


Yellow (6%)

# Brightness & Saturation Gradients


These gradients show how the RYB color 120, 81, 239 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 120, 81, 239 by changing the saturation by 10% instead.




 120, 81, 239

255, 255, 255

 180, 133, 255

 211, 160, 255

 241, 187, 255

 255, 215, 255


 255, 244, 255

 120, 81, 239

 89, 56, 210

 54, 31, 182

 0, 2, 154

 0, 0, 127

 0, 0, 101

 0, 8, 76

 0, 4, 52

 0, 2, 30

 0, 0, 1

■ 120, 81, 239

■ 120, 81, 239

■ 102, 57, 239

■ 138, 105, 239

■ 84, 33, 239

■ 156, 129, 239

■ 66, 9, 239

■ 174, 153, 239

■ 59, 0, 239

■ 192, 177, 239

■ 210, 200, 239

■ 228, 224, 239

■ 239, 248, 241

■ 239, 255, 239

# Harmonies

## Analogous

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



0, 81, 255



120, 81, 239



211, 0, 176

# Triad

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



120, 81, 239



185, 147, 0



0, 74, 141

# Complementary

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



120, 81, 239



81, 239, 120

# 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, 106, 138



120, 81, 239



10, 123, 0

# Square

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



120, 81, 239



226, 0, 24



0, 131, 112



0, 83, 201

# Rectangle

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



120, 81, 239



235, 0, 126



0, 131, 112



0, 83, 141



# Sweetspot

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



120, 81, 239



217, 204, 255



81, 150, 239



104, 97, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



120, 81, 239



103, 54, 255



197, 81, 239



111, 108, 120



45, 0, 184



14, 0, 56



# Inverse Universe

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



239, 81, 200



255, 54, 205



81, 239, 197



120, 108, 117



184, 0, 138

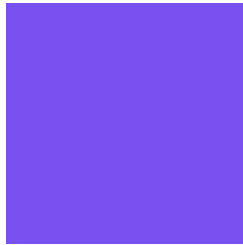


56, 0, 42



# Previews

## White Background



This preview shows how the RYB color 120, 81, 239 looks on a white background.

## Color Contrast Check

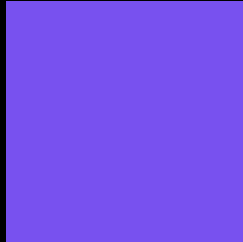
Large Text (above 18pt) WCAG AA ✓ Pass

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 120, 81, 239 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 120, 81, 239 Background



This preview shows how black text looks on a background with the R Y B color 120, 81, 239.

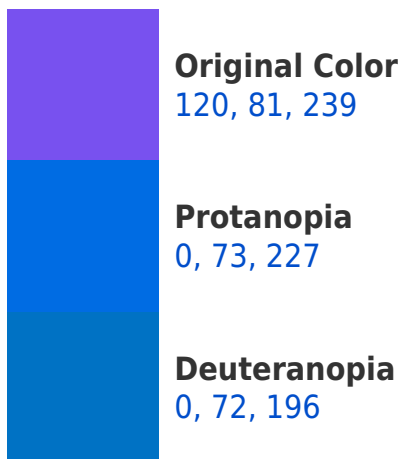


This preview shows how white text looks on a background with the R Y B color 120, 81, 239.

# 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, 103, 125

# Trichromacy



**Original Color**

120, 81, 239



**Protanomaly**

44, 86, 231



**Deuteranomaly**

44, 87, 212



**Tritanomaly**

99, 103, 166

# Monochromacy



**Original Color**

120, 81, 239



**Achromatopsia**

111, 111, 111



**Achromatomaly**

114, 100, 158

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 120, 81, 239 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(120, 81, 239)` looks like.

```
.text, #text, p{  
    color:rgb(120, 81, 239)  
}
```

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(120, 81, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 81, 239) }
```

## Border

The CSS property to change the border of an element to RYB 120, 81, 239 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(120, 81, 239) }
```

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

```
.border{ border-color:rgb(120, 81, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 81, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 81, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 81, 239);  
box-shadow:4px 4px 4px 4px rgb(120, 81,  
239) }
```

# Background

The CSS property to change the background color of an element to RGB 120, 81, 239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 81, 239) }
```

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

```
.background{ background-color: rgb(120, 81,  
239) }
```

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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