

# Converting Colors

`RYB(133, 83, 195)`

Have a look what the booklet for  
RYB(133, 83, 195) contains.

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# Color

**R<sub>Y</sub>B(133, 83, 195)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8553C3
RGB	133, 83, 195
RGB Percent	52%, 33%, 76%
CMY	0.4784, 0.6745, 0.2353
CMYK	0.32, 0.57, 0.00, 0.24
HSL	267°, 48%, 55%
HSV	267°, 57%, 76%
XYZ	22.6164, 15.1132, 53.3549
YIQ	110.7180, -6.1520, 45.4320

# Conversions

## Conversions Part 2

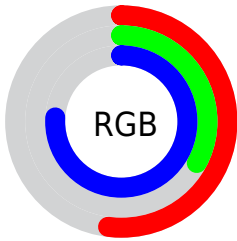
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 83, 195
Decimal	8737731
CIE <sub>Lab</sub>	45.79, 43.50, -51.14
CIE <sub>LCh</sub>	46, 67.145, 310.385
Yxy	15.1132, 0.2483, 0.1659
Android (android.graphics.Color)	4286927811 (0xFF8553C3)
YUV	110.7180, 41.5510, 19.5413
Hunter-Lab	38.8757, 35.8123, -54.1595

# Details

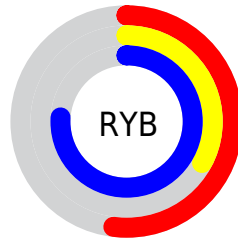
The RYB color **133, 83, 195** is a dark color, and the websafe version is hex **9966CC**. The color can be described as middle muted purple. A complement of this color would be **83, 195, 133**, and the grayscale version is **110, 110, 110**.

A 20% lighter version of the original color is **189, 134, 252**, and **78, 34, 140** is the 20% darker color. If you saturate the color by 10%, you get **122, 64, 195**, and if you desaturate by 10%, it is **144, 103, 195**.

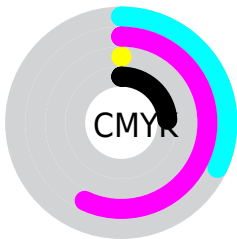
# Distribution



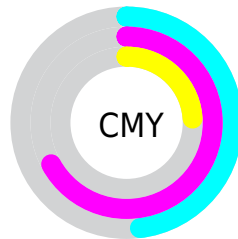
- Red (52%)
- Green (33%)
- Blue (76%)



- Red (52%)
- Yellow (33%)
- Blue (76%)



- Cyan (32%)
- Magenta (57%)
- Yellow (0%)
- Black (24%)




- Cyan (48%)
- Magenta (67%)
- Yellow (24%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 133, 83, 195 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 133, 83, 195 by changing the saturation by 10% instead.



 133, 83, 195

255, 255, 255

 189, 134, 252

 218, 161, 255

 248, 189, 255


 255, 217, 255

 255, 246, 255

 133, 83, 195

 106, 58, 167

 78, 34, 140

 51, 7, 114

 19, 0, 89

 0, 0, 65

 0, 3, 42

 0, 1, 20

 0, 0, 0

 133, 83, 195

 133, 83, 195

■ 122, 64, 195

■ 144, 103, 195

■ 111, 44, 195

■ 155, 122, 195

■ 101, 24, 195

■ 165, 142, 195

■ 90, 5, 195

■ 176, 161, 195

■ 87, 0, 195

■ 187, 181, 195

■ 195, 200, 197

■ 195, 219, 205

■ 195, 239, 215

■ 195, 255, 220

# Harmonies

## Analogous

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



0, 73, 220



133, 83, 195



188, 50, 147

# Triad

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



133, 83, 195



121, 161, 0



0, 68, 133

# Complementary

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



133, 83, 195



83, 195, 133

# 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, 86, 131



133, 83, 195



2, 114, 0

# Square

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



133, 83, 195



194, 68, 37



0, 124, 77



0, 76, 181

# Rectangle

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



133, 83, 195



203, 35, 110



0, 124, 77



0, 73, 132



# Sweetspot

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



133, 83, 195



229, 210, 252



83, 123, 195



113, 102, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



133, 83, 195



156, 78, 252



188, 83, 195



92, 87, 97



72, 0, 161



15, 0, 33



# Inverse Universe

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



195, 83, 145



252, 78, 175



83, 195, 188



97, 87, 93



161, 0, 89

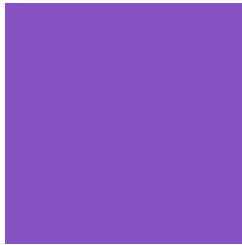


33, 0, 18



# Previews

## White Background



This preview shows how the RYB color 133, 83, 195 looks on a white background.

## Color Contrast Check

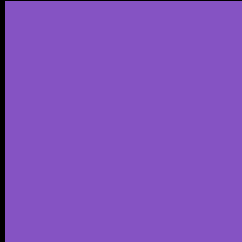
Large Text (above 18pt) WCAG AA ✓ Pass

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 133, 83, 195 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 133, 83, 195 Background**



This preview shows how black text looks on a background with the RYB color 133, 83, 195.

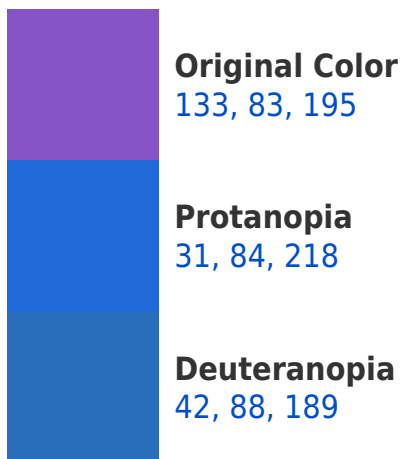



This preview shows how white text looks on a background with the RYB color 133, 83, 195.

# 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**  
117, 105, 113

# Trichromacy



**Original Color**

133, 83, 195



**Protanomaly**

68, 92, 210



**Deuteranomaly**

75, 96, 191



**Tritanomaly**

123, 97, 143

# Monochromacy



**Original Color**

133, 83, 195



**Achromatopsia**

111, 111, 111



**Achromatomaly**

119, 101, 142

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 133, 83, 195 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(133, 83, 195)` looks like.

```
.text, #text, p{  
    color:rgb(133, 83, 195)  
}
```

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(133, 83, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 83, 195) }
```

## Border

The CSS property to change the border of an element to RYB 133, 83, 195 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(133, 83, 195) }
```

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

```
.border{ border-color:rgb(133, 83, 195) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 83, 195)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 83, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 83, 195);  
box-shadow:4px 4px 4px 4px rgb(133, 83,  
195) }
```

# Background

The CSS property to change the background color of an element to RYB 133, 83, 195 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 83, 195) }
```

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

```
.background{ background-color: rgb(133, 83,  
195) }
```

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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