

# Converting Colors

**RYP(80, 47, 133)**

Have a look what the booklet for  
RYB(80, 47, 133) contains.

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# Color

**R<sub>Y</sub>B(80, 47, 133)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	502F85
RGB	80, 47, 133
RGB Percent	31%, 18%, 52%
CMY	0.6863, 0.8157, 0.4784
CMYK	0.40, 0.65, 0.00, 0.48
HSL	263°, 48%, 35%
HSV	263°, 65%, 52%
XYZ	8.5584, 5.4320, 22.7877
YIQ	66.6710, -7.9380, 33.7420

# Conversions

## Conversions Part 2

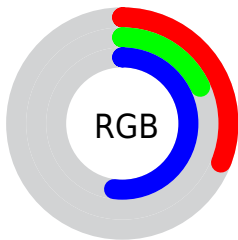
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	80, 47, 133
Decimal	5255045
CIE <sub>Lab</sub>	27.93, 34.75, -43.00
CIE <sub>LCh</sub>	28, 55.284, 308.941
Yxy	5.4320, 0.2327, 0.1477
Android (android.graphics.Color)	4283445125 (0xFF502F85)
YUV	66.6710, 32.7002, 11.6895
Hunter-Lab	23.3066, 24.7606, -41.6554

# Details

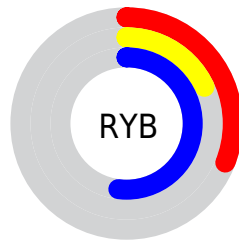
The RYB color **80, 47, 133** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **47, 133, 80**, and the grayscale version is **66, 66, 66**.

A 20% lighter version of the original color is **133, 95, 187**, and **26, 2, 82** is the 20% darker color. If you saturate the color by 10%, you get **72, 34, 133**, and if you desaturate by 10%, it is **88, 60, 133**.

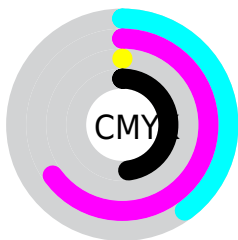
# Distribution



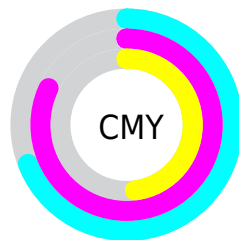
- Red (31%)
- Green (18%)
- Blue (52%)



- Red (31%)
- Yellow (18%)
- Blue (52%)



- Cyan (40%)
- Magenta (65%)
- Yellow (0%)
- Black (48%)



- Cyan (69%)
- Magenta (82%)
- Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 80, 47, 133 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 80, 47, 133 by changing the saturation by 10% instead.





80, 47, 133



80, 47, 133

255, 255, 255



54, 24, 107



133, 95, 187



26, 2, 82



160, 120, 215



0, 0, 59



188, 146, 244



0, 2, 36



217, 173, 255



0, 0, 12



246, 201, 255



0, 0, 0



255, 229, 255



80, 47, 133



80, 47, 133



72, 34, 133



88, 60, 133

■ 64, 20, 133

■ 96, 74, 133

■ 55, 7, 133

■ 105, 87, 133

■ 51, 0, 133

■ 113, 100, 133

■ 121, 114, 133

■ 129, 127, 133

■ 133, 140, 136

■ 133, 153, 140

■ 133, 167, 146

# Harmonies

## Analogous

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



0, 47, 151



80, 47, 133



124, 12, 97

# Triad

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



80, 47, 133



105, 103, 0



0, 43, 83

# Complementary

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



80, 47, 133



47, 133, 80

# 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, 58, 82



80, 47, 133



2, 70, 0

# Square

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



80, 47, 133



129, 26, 13



0, 77, 60



0, 49, 119

# Rectangle

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



80, 47, 133



136, 0, 69



0, 77, 60



0, 47, 83



# Sweetspot

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



80, 47, 133



153, 140, 173



47, 80, 133



74, 67, 87



214, 214, 214



87, 87, 87



# Same Dimension

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



80, 47, 133



90, 38, 173



123, 47, 133



62, 60, 66



50, 0, 130



1, 0, 3



# Inverse Universe

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



133, 47, 100



173, 38, 122



47, 133, 123



66, 60, 64



130, 0, 80

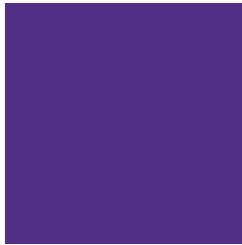


3, 0, 2



# Previews

## White Background



This preview shows how the RYB color 80, 47, 133 looks on a white background.

## Color Contrast Check

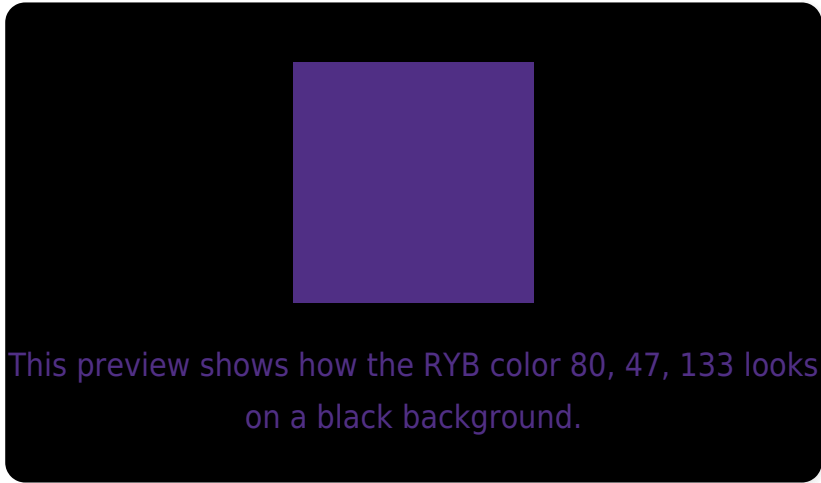
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

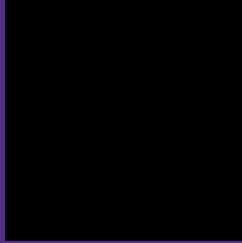
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## **R Y B 80, 47, 133 Background**



This preview shows how black text looks on a background with the RYB color 80, 47, 133.

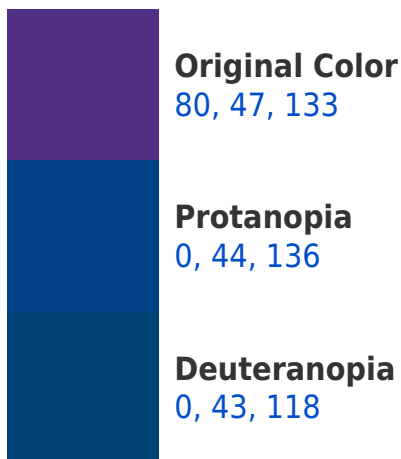


This preview shows how white text looks on a background with the RYB color 80, 47, 133.

# 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**  
66, 66, 71

# Trichromacy



**Original Color**  
80, 47, 133

**Protanomaly**  
29, 52, 135

**Deuteranomaly**  
29, 52, 123

**Tritanomaly**  
71, 59, 94

# Monochromacy



**Original Color**  
80, 47, 133

**Achromatopsia**  
67, 67, 67

**Achromatomaly**  
72, 60, 91

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 80, 47, 133 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(80, 47, 133) looks like.

```
.text, #text, p{  
    color:rgb(80, 47, 133)  
}
```

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(80, 47, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 47, 133) }
```

## Border

The CSS property to change the border of an element to RYB 80, 47, 133 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(80, 47, 133) }
```

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

```
.border{ border-color:rgb(80, 47, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 47, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 47, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 47, 133);  
box-shadow:4px 4px 4px 4px rgb(80, 47,  
133) }
```

# Background

The CSS property to change the background color of an element to RYB 80, 47, 133 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 47, 133) }
```

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

```
.background{ background-color: rgb(80, 47,  
133) }
```

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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