

Converting Colors

`RYB(83, 18, 237)`

Have a look what the booklet for
RYB(83, 18, 237) contains.

RYB(83, 18, 237)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	26
<i>CSS Examples</i>	29

Color

R_YB(83, 18, 237)

Conversions

Conversions Part 1

Format	Color
Hex	5312ED
RGB	83, 18, 237
RGB Percent	33%, 7%, 93%
CMY	0.6745, 0.9294, 0.0706
CMYK	0.65, 0.92, 0.00, 0.07
HSL	258°, 86%, 50%
HSV	258°, 92%, 93%
XYZ	19.0696, 8.3860, 80.7343
YIQ	62.4010, -31.5590, 81.8890

Conversions

Conversions Part 2

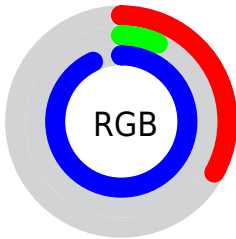
Format	Color
R_{YB}	83, 18, 237
Decimal	5444333
CIE _{Lab}	34.77, 73.86, -93.48
CIE _{LCh}	35, 119.135, 308.311
Yxy	8.3860, 0.1763, 0.0775
Android (android.graphics.Color)	4283634413 (0xFF5312ED)
YUV	62.4010, 86.0773, 18.0653
Hunter-Lab	28.9587, 66.8669, -145.0246

Details

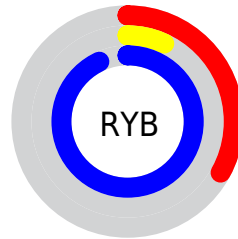
The RYB color **83, 18, 237** is a dark color, and the websafe version is hex **6633FF**. The color can be described as dark washed blue. A complement of this color would be **18, 237, 83**, and the grayscale version is **62, 62, 62**.

A 20% lighter version of the original color is **152, 81, 255**, and **0, 0, 179** is the 20% darker color. If you saturate the color by 10%, you get **70, 0, 237**, and if you desaturate by 10%, it is **100, 42, 237**.

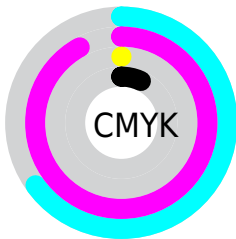
Distribution



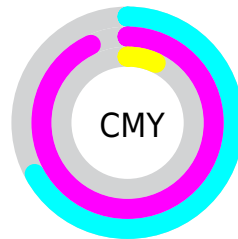
- Red (33%)
- Green (7%)
- Blue (93%)



- Red (33%)
- Yellow (7%)
- Blue (93%)



- Cyan (65%)
- Magenta (92%)
- Yellow (0%)
- Black (7%)






















- Cyan (67%)
- Magenta (93%)
- Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the RYB color 83, 18, 237 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 83, 18, 237 by changing the saturation by 10% instead.

 83, 18, 237	 83, 18, 237
 255, 255, 255	 37, 0, 208
 152, 81, 255	 0, 0, 179
 184, 108, 255	 0, 0, 152
 215, 136, 255	 0, 0, 124
 247, 164, 255	 0, 8, 98
 255, 192, 255	 0, 8, 73
 255, 221, 255	 0, 4, 50
 255, 251, 255	 0, 1, 28
	 0, 0, 0

■ 83, 18, 237

■ 83, 18, 237

■ 70, 0, 237

■ 100, 42, 237

■ 116, 65, 237

■ 133, 89, 237

■ 150, 113, 237

■ 166, 136, 237

■ 183, 160, 237

■ 200, 184, 237

■ 216, 208, 237

■ 233, 231, 237

Harmonies

Analogous

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



0, 68, 255



83, 18, 237



203, 0, 155

Triad

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



83, 18, 237



153, 58, 0



0, 56, 110

Complementary

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



83, 18, 237



18, 237, 83

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, 107, 107



83, 18, 237



0, 88, 12

Square

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



83, 18, 237



207, 0, 0



0, 103, 103



0, 72, 202

Rectangle

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



83, 18, 237



227, 0, 92



0, 103, 103



0, 65, 109

Sweetspot

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



83, 18, 237



205, 184, 255



18, 109, 237



97, 84, 128



0, 0, 0



128, 128, 128

Same Dimension

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



83, 18, 237



76, 0, 255



190, 18, 237



109, 106, 117



54, 0, 181



16, 0, 54

Inverse Universe

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



237, 18, 172



255, 0, 179



18, 237, 190



117, 106, 114



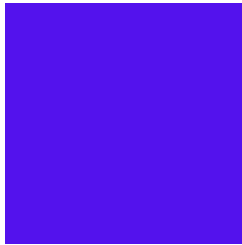
181, 0, 127



54, 0, 38

Previews

White Background



This preview shows how the RYB color 83, 18, 237 looks on a white background.

Color Contrast Check

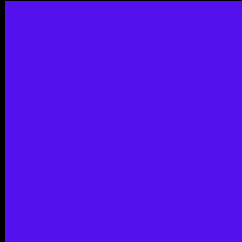
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the RYB color 83, 18, 237 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

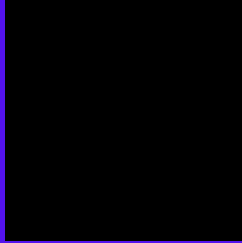
Any Text WCAG AA × Fail

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 83, 18, 237 Background



This preview shows how black text looks on a background with the R Y B color 83, 18, 237.



This preview shows how white text looks on a background with the R Y B color 83, 18, 237.

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
83, 18, 237

Protanopia
0, 54, 166

Deuteranopia
0, 53, 141



Tritanopia
0, 47, 97

Trichromacy



Original Color

83, 18, 237

Protanomaly

30, 53, 192

Deuteranomaly

30, 55, 176

Tritanomaly

30, 56, 148

Monochromacy



Original Color

83, 18, 237

Achromatopsia

62, 62, 62

Achromatomaly

70, 46, 126

CSS Examples

Text

The CSS property to change the color of the text to RYB 83, 18, 237 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(83, 18, 237)` looks like.

```
.text, #text, p{  
    color:rgb(83, 18, 237)  
}
```

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(83, 18, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 18, 237) }
```

Border

The CSS property to change the border of an element to RYB 83, 18, 237 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(83, 18, 237) }
```

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

```
.border{ border-color:rgb(83, 18, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 18, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 18, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 18, 237);  
box-shadow:4px 4px 4px 4px rgb(83, 18,  
237) }
```

Background

The CSS property to change the background color of an element to RGB 83, 18, 237 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 18, 237) }
```

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

```
.background{ background-color: rgb(83, 18,  
237) }
```

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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