

# Converting Colors

R<sub>Y</sub>B(97, 33, 235)

Have a look what the booklet for  
RYB(97, 33, 235) contains.

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**Color**

**`RYB(97, 33, 235)`**

# Conversions

## Conversions Part 1

Format	Color
Hex	6121EB
RGB	97, 33, 235
RGB Percent	38%, 13%, 92%
CMY	0.6196, 0.8706, 0.0784
CMYK	0.59, 0.86, 0.00, 0.08
HSL	259°, 83%, 53%
HSV	259°, 86%, 92%
XYZ	20.4690, 9.6273, 79.3767
YIQ	75.1640, -26.6980, 76.3900

# Conversions

## Conversions Part 2

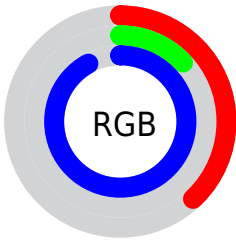
Format	Color
RYP	97, 33, 235
Decimal	6365675
CIELab	37.16, 70.54, -88.34
CIELCh	37, 113.047, 308.610
Yxy	9.6273, 0.1870, 0.0879
Android (android.graphics.Color)	4284555755 (0xFF6121EB)
YUV	75.1640, 78.7991, 19.1502
Hunter-Lab	31.0278, 63.4575, -129.9587

# Details

The RYB color `97, 33, 235` is a dark color, and the websafe version is hex `6633FF`. The color can be described as dark washed purple. A complement of this color would be `33, 235, 97`, and the grayscale version is `74, 74, 74`.

A 20% lighter version of the original color is `162, 90, 255`, and `0, 0, 178` is the 20% darker color. If you saturate the color by 10%, you get `81, 10, 235`, and if you desaturate by 10%, it is `113, 56, 235`.

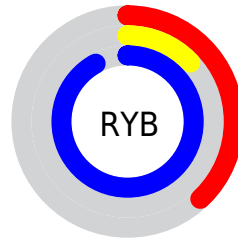
# Distribution



 Red (38%)

 Green (13%)

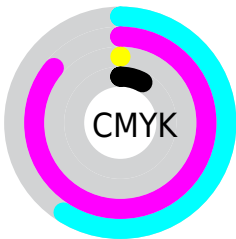
 Blue (92%)





 Red (38%)

 Yellow (13%)

 Blue (92%)

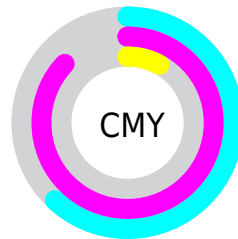


 Cyan (59%)


 Magenta (86%)

 Yellow (0%)

 Black (8%)



 Cyan (62%)

 Magenta (87%)

 Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 97, 33, 235 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 97, 33, 235 by changing the saturation by 10% instead.





97, 33, 235



97, 33, 235

255, 255, 255



60, 0, 206



162, 90, 255



0, 0, 178



193, 118, 255



0, 0, 150



225, 145, 255



0, 0, 123



255, 173, 255



0, 3, 97



255, 202, 255



0, 7, 72



255, 231, 255



0, 4, 48



0, 1, 27



0, 0, 0

■ 97, 33, 235

■ 97, 33, 235

■ 81, 10, 235

■ 113, 56, 235

■ 74, 0, 235

■ 129, 80, 235

■ 145, 104, 235

■ 161, 127, 235

■ 177, 150, 235

■ 193, 174, 235

■ 209, 198, 235

■ 225, 221, 235

■ 235, 244, 238

# Harmonies

## Analogous

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



0, 70, 255



97, 33, 235



206, 0, 156

# Triad

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



97, 33, 235



157, 78, 0



0, 59, 116

# Complementary

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



97, 33, 235



33, 235, 97

# 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, 114, 114



97, 33, 235



0, 93, 9

# Square

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



97, 33, 235



209, 0, 0



0, 108, 108



0, 75, 203

# Rectangle

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



97, 33, 235



229, 0, 97



0, 108, 108



0, 67, 115



# Sweetspot

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



97, 33, 235



210, 189, 255



33, 115, 235



100, 88, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



97, 33, 235



81, 0, 255



198, 33, 235



109, 106, 117



57, 0, 181



17, 0, 54



# Inverse Universe

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



235, 33, 171



255, 0, 174



33, 235, 198



117, 106, 114



181, 0, 124

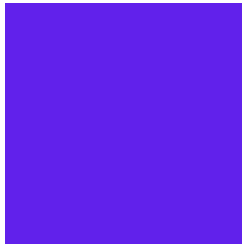


54, 0, 37



# Previews

## White Background



This preview shows how the RYB color 97, 33, 235 looks on a white background.

## Color Contrast Check

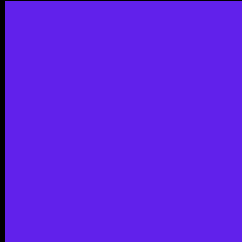
Large Text (above 18pt) WCAG AA ✓ Pass

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 97, 33, 235 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

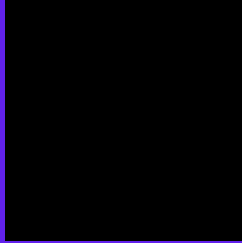
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## R Y B 97, 33, 235 Background



This preview shows how black text looks on a background with the RYB color 97, 33, 235.

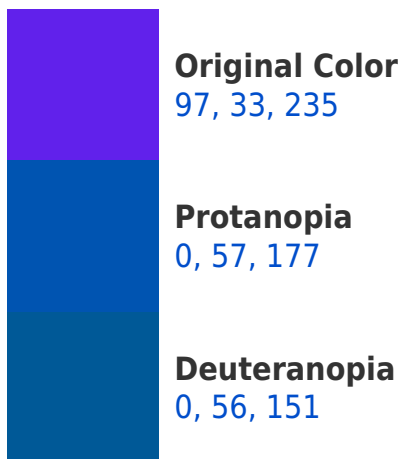


This preview shows how white text looks on a background with the RYB color 97, 33, 235.

# 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**  
40, 69, 103

# Trichromacy



**Original Color**

97, 33, 235



**Protanomaly**

35, 60, 198



**Deuteranomaly**

35, 63, 182



**Tritanomaly**

61, 71, 151

# Monochromacy



**Original Color**

97, 33, 235



**Achromatopsia**

75, 75, 75



**Achromatomaly**

83, 60, 133

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 97, 33, 235 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(97, 33, 235) looks like.

```
.text, #text, p{  
    color:rgb(97, 33, 235)  
}
```

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(97, 33, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 33, 235) }
```

## Border

The CSS property to change the border of an element to RYB 97, 33, 235 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(97, 33, 235) }
```

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

```
.border{ border-color:rgb(97, 33, 235) }
```

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

Here you see how a box with a 4 pixel rgb(97, 33, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 33, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 33, 235);  
box-shadow:4px 4px 4px 4px rgb(97, 33,  
235) }
```

# Background

The CSS property to change the background color of an element to RYB 97, 33, 235 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 33, 235) }
```

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

```
.background{ background-color: rgb(97, 33,  
235) }
```

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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