

# Converting Colors

`RYB(51, 117, 238)`

Have a look what the booklet for  
RYB(51, 117, 238) contains.

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# Color

**R<sub>Y</sub>B(51, 117, 238)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3399EE
RGB	51, 153, 238
RGB Percent	20%, 60%, 93%
CMY	0.8000, 0.4000, 0.0667
CMYK	0.79, 0.36, 0.00, 0.07
HSL	207°, 85%, 57%
HSV	207°, 79%, 93%
XYZ	28.1891, 29.6593, 85.1280
YIQ	132.1920, -88.0770, 4.8110

# Conversions

## Conversions Part 2

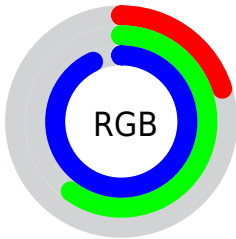
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 117, 238
Decimal	3381742
CIE Lab	61.36, -0.00, -50.87
CIE LCh	61, 50.869, 269.995
Yxy	29.6593, 0.1972, 0.2074
Android (android.graphics.Color)	4281571822 (0xFF3399EE)
YUV	132.1920, 52.1633, -71.2054
Hunter-Lab	54.4604, -2.9127, -54.5550

# Details

The RYB color **51, 117, 238** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle washed azure. A complement of this color would be **238, 207, 51**, and the grayscale version is **132, 132, 132**.

A 20% lighter version of the original color is **124, 175, 255**, and **0, 66, 182** is the 20% darker color. If you saturate the color by 10%, you get **27, 101, 238**, and if you desaturate by 10%, it is **75, 133, 238**.

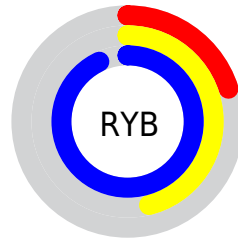
# Distribution



Red (20%)

Green (60%)

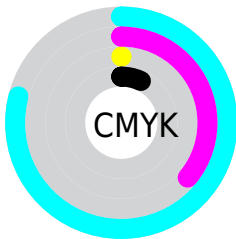
Blue (93%)



Red (20%)

Yellow (46%)

Blue (93%)

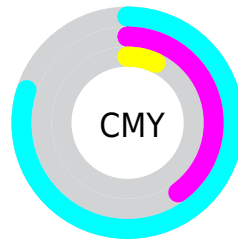


Cyan (79%)

Magenta (36%)

Yellow (0%)

Black (7%)



Cyan (80%)

Magenta (40%)


















Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 51, 117, 238 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 51, 117, 238 by changing the saturation by 10% instead.



 51, 117, 238	 51, 117, 238
 255, 255, 255	 0, 79, 209
 124, 175, 255	 0, 66, 182
 156, 200, 255	 0, 52, 154
 187, 221, 255	 0, 39, 128
 218, 237, 255	 0, 27, 102
 249, 252, 255	 0, 12, 78
	 0, 5, 54
	 0, 2, 32
	 0, 0, 4

■ 51, 117, 238

■ 51, 117, 238

■ 27, 101, 238

■ 75, 133, 238

■ 3, 86, 238

■ 99, 148, 238

■ 0, 84, 238

■ 122, 163, 238

■ 146, 178, 238

■ 170, 194, 238

■ 194, 210, 238

■ 218, 225, 238

■ 240, 241, 238

■ 245, 255, 238

# Harmonies

## Analogous

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



0, 95, 225



51, 117, 238



150, 136, 226

# Triad

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



51, 117, 238



229, 115, 106



67, 142, 167

# Complementary

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



51, 117, 238



238, 207, 51

# 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.



66, 159, 97



51, 117, 238



209, 173, 70

# Square

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



51, 117, 238



229, 109, 150



88, 173, 53



0, 91, 170

# Rectangle

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



51, 117, 238



189, 124, 206



88, 173, 53



88, 165, 162

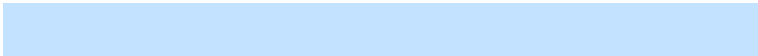


# Sweetspot

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



51, 117, 238



194, 215, 255



51, 180, 238



91, 104, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



51, 117, 238



15, 100, 255



51, 60, 238



108, 112, 120



0, 65, 184



0, 20, 56



# Inverse Universe

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



238, 51, 153



255, 15, 146



60, 238, 51



120, 108, 114



184, 0, 100

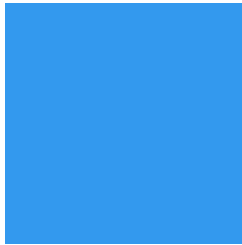


56, 0, 31



# Previews

## White Background



This preview shows how the RYB color 51, 117, 238 looks on a white background.

## Color Contrast Check

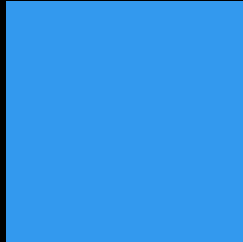
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the RYB color 51, 117, 238 looks on a black 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

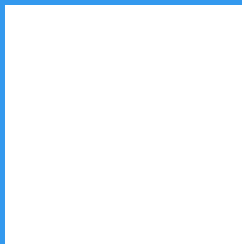
If you want to check with other color combinations, try the [Color Contrast Checker](#).



## RGB 51, 117, 238 Background



This preview shows how black text looks on a background with the RGB color 51, 117, 238.

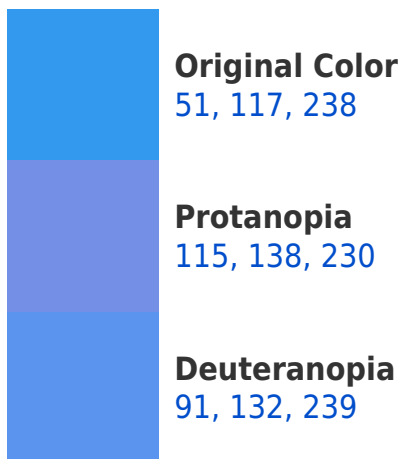


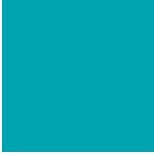
This preview shows how white text looks on a background with the RGB color 51, 117, 238.

# 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](#).

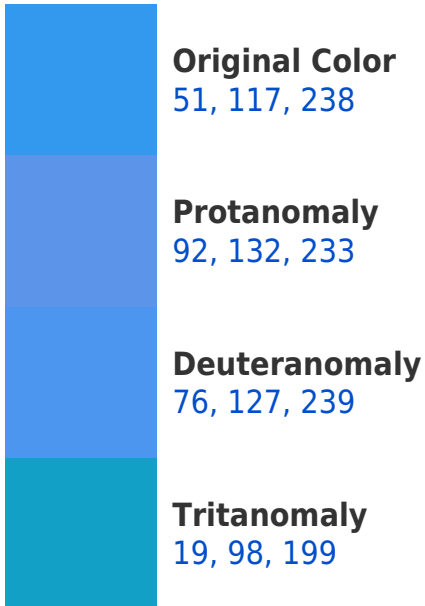
## Dichromacy



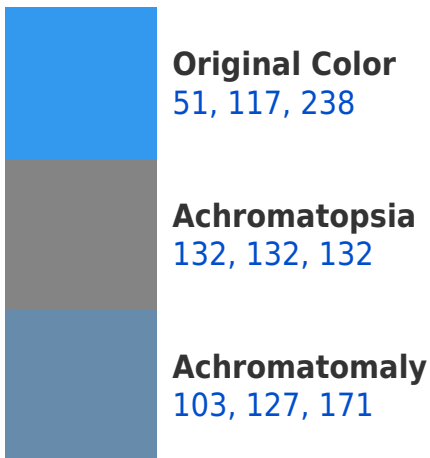


**Tritanopia**  
0, 85, 176

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to RYB 51, 117, 238 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(51, 153, 238)` looks like.

```
.text, #text, p{  
    color:rgb(51, 153, 238)  
}
```

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(51, 153, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 153, 238) }
```

## Border

The CSS property to change the border of an element to RYB 51, 117, 238 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(51, 153, 238) }
```

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

```
.border{ border-color:rgb(51, 153, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 153, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 153, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 153, 238);  
box-shadow:4px 4px 4px 4px rgb(51, 153,  
238) }
```

# Background

The CSS property to change the background color of an element to RYB 51, 117, 238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 153, 238) }
```

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

```
.background{ background-color: rgb(51, 153,  
238) }
```

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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