

# Converting Colors

`RYB(64, 110, 202)`

Have a look what the booklet for  
RYB(64, 110, 202) contains.

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# Color

**R<sub>Y</sub>B(64, 110, 202)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4085CA
RGB	64, 133, 202
RGB Percent	25%, 52%, 79%
CMY	0.7490, 0.4784, 0.2078
CMYK	0.68, 0.34, 0.00, 0.21
HSL	210°, 57%, 52%
HSV	210°, 68%, 79%
XYZ	21.1626, 22.1293, 59.0331
YIQ	120.2350, -63.2730, 6.8310

# Conversions

## Conversions Part 2

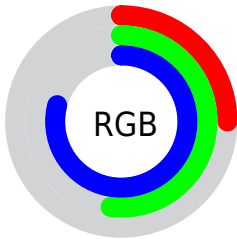
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	64, 110, 202
Decimal	4228554
CIE Lab	54.16, 0.62, -42.11
CIE LCh	54, 42.115, 270.841
Yxy	22.1293, 0.2068, 0.2163
Android (android.graphics.Color)	4282418634 (0xFF4085CA)
YUV	120.2350, 40.3101, -49.3181
Hunter-Lab	47.0418, -2.0219, -41.4742

# Details

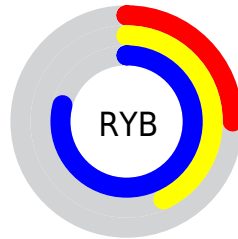
The RYB color **64, 110, 202** is a dark color, and the websafe version is hex **6699CC**. The color can be described as middle muted azure. A complement of this color would be **202, 202, 64**, and the grayscale version is **120, 120, 120**.

A 20% lighter version of the original color is **126, 167, 255**, and **0, 53, 147** is the 20% darker color. If you saturate the color by 10%, you get **44, 97, 202**, and if you desaturate by 10%, it is **84, 123, 202**.

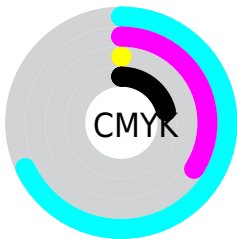
# Distribution



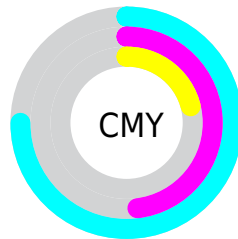
- Red (25%)
- Green (52%)
- Blue (79%)



- Red (25%)
- Yellow (43%)
- Blue (79%)



- Cyan (68%)
- Magenta (34%)
- Yellow (0%)
- Black (21%)



















- Cyan (75%)
- Magenta (48%)
- Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 64, 110, 202 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 64, 110, 202 by changing the saturation by 10% instead.



 64, 110, 202	 64, 110, 202
 255, 255, 255	 22, 77, 174
 126, 167, 255	 0, 53, 147
 155, 192, 255	 0, 41, 121
 185, 216, 255	 0, 28, 96
 215, 235, 255	 0, 16, 72
 245, 250, 255	 0, 4, 49
	 0, 1, 27
	 0, 0, 0

 64, 110, 202       64, 110, 202

■ 44, 97, 202

■ 84, 123, 202

■ 24, 83, 202

■ 104, 137, 202

■ 3, 70, 202

■ 125, 150, 202

■ 0, 67, 202

■ 145, 164, 202

■ 165, 178, 202

■ 185, 191, 202

■ 204, 205, 202

■ 226, 226, 202

■ 246, 246, 202

# Harmonies

## Analogous

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



0, 82, 192



64, 110, 202



133, 120, 192

# Triad

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



64, 110, 202



196, 104, 94



65, 124, 145

# Complementary

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



64, 110, 202



202, 202, 64

# 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.



64, 138, 89



64, 110, 202



179, 153, 66

# Square

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



64, 110, 202



196, 99, 130



83, 150, 54



0, 79, 148

# Rectangle

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



64, 110, 202



164, 110, 176



83, 150, 54



82, 143, 142

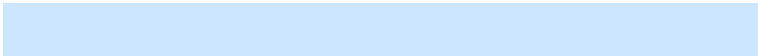


# Sweetspot

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



64, 110, 202



204, 221, 255



64, 156, 202



97, 107, 128



0, 0, 0



128, 128, 128



# Same Dimension

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



64, 110, 202



46, 115, 255



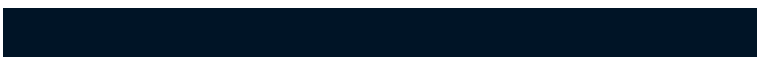
64, 64, 202



92, 95, 102



0, 55, 166



0, 13, 38



# Inverse Universe

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



202, 64, 133



255, 46, 150



64, 202, 64



102, 92, 97



166, 0, 83

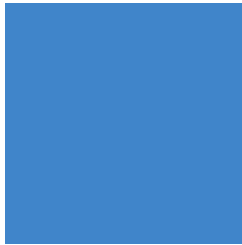


38, 0, 19



# Previews

## White Background



This preview shows how the RYB color 64, 110, 202 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 64, 110, 202 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

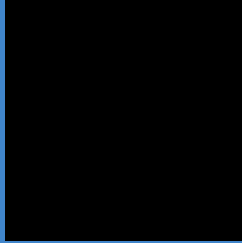
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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



## RYB 64, 110, 202 Background



This preview shows how black text looks on a background with the RYB color 64, 110, 202.

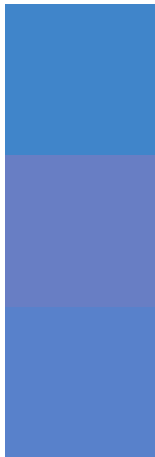


This preview shows how white text looks on a background with the RYB color 64, 110, 202.

# 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**  
64, 110, 202

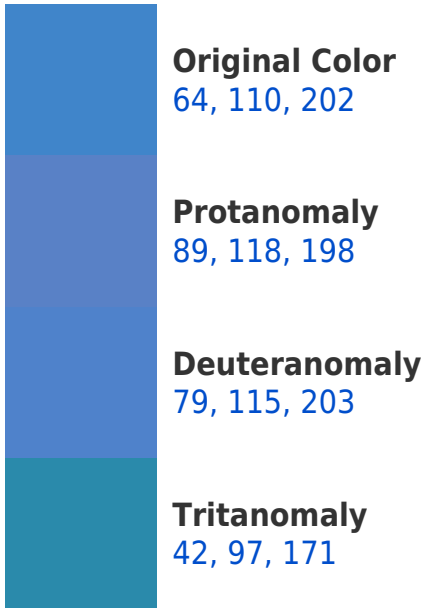
**Protanopia**  
104, 122, 196

**Deuteranopia**  
88, 118, 203

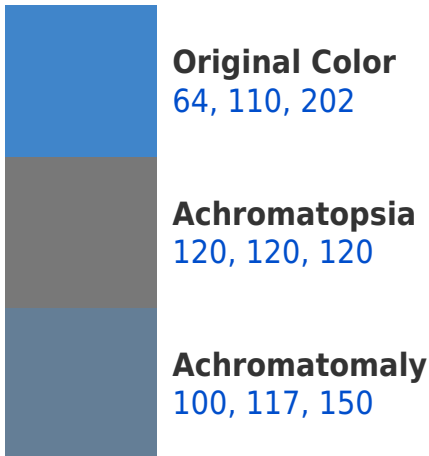


**Tritanopia**  
29, 89, 154

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to RYB 64, 110, 202 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(64, 133, 202)` looks like.

```
.text, #text, p{  
    color:rgb(64, 133, 202)  
}
```

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(64, 133, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 133, 202) }
```

## Border

The CSS property to change the border of an element to RYB 64, 110, 202 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(64, 133, 202) }
```

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

```
.border{ border-color:rgb(64, 133, 202) }
```

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

Here you see how a box with a 4 pixel rgb(64, 133, 202) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 133, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 133, 202);  
box-shadow:4px 4px 4px 4px rgb(64, 133,  
202) }
```

# Background

The CSS property to change the background color of an element to RYB 64, 110, 202 is called "background".

The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 133, 202) }
```

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

```
.background{ background-color: rgb(64, 133,  
202) }
```

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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