

# Converting Colors

`RYB(45, 105, 207)`

Have a look what the booklet for  
RYB(45, 105, 207) contains.

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# Color

**R<sub>Y</sub>B(45, 105, 207)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	2D8CCF
RGB	45, 140, 207
RGB Percent	18%, 55%, 81%
CMY	0.8235, 0.4498, 0.1882
CMYK	0.78, 0.32, 0.00, 0.19
HSL	205°, 64%, 49%
HSV	205°, 78%, 81%
XYZ	21.7658, 23.9051, 62.4985
YIQ	119.2330, -78.1270, 0.6970

# Conversions

## Conversions Part 2

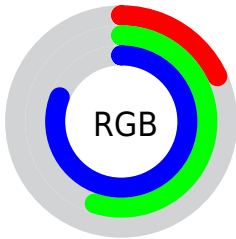
<b>Format</b>	<b>Color</b>
<b>RYB</b>	45, 105, 207
Decimal	2985167
CIELab	55.99, -4.41, -42.09
CIELCh	56, 42.319, 264.016
Yxy	23.9051, 0.2012, 0.2210
Android (android.graphics.Color)	4281175247 (0xFF2D8CCF)
YUV	119.2330, 43.2691, -65.1023
Hunter-Lab	48.8929, -6.0991, -41.5638

# Details

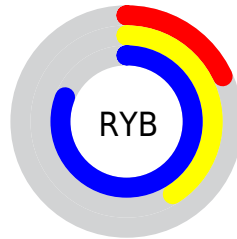
The RYB color **45, 105, 207** is a dark color, and the websafe version is hex **3399CC**. The color can be described as dark muted azure. A complement of this color would be **207, 159, 45**, and the grayscale version is **119, 119, 119**.

A 20% lighter version of the original color is **115, 165, 255**, and **0, 57, 152** is the 20% darker color. If you saturate the color by 10%, you get **24, 92, 207**, and if you desaturate by 10%, it is **66, 118, 207**.

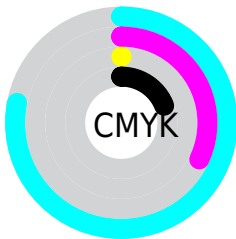
# Distribution



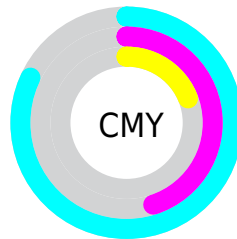
- Red (18%)
- Green (55%)
- Blue (81%)



- Red (18%)
- Yellow (41%)
- Blue (81%)



- Cyan (78%)
- Magenta (32%)
- Yellow (0%)
- Black (19%)




















- Cyan (82%)
- Magenta (45%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 45, 105, 207 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 45, 105, 207 by changing the saturation by 10% instead.



 45, 105, 207	 45, 105, 207
 255, 255, 255	 0, 70, 179
 115, 166, 255	 0, 57, 152
 145, 190, 255	 0, 44, 126
 175, 214, 255	 0, 32, 101
 205, 230, 255	 0, 19, 76
 236, 246, 255	 0, 5, 53
	 0, 2, 31
	 0, 0, 2
	 0, 0, 0

■ 45, 105, 207

■ 45, 105, 207

■ 24, 92, 207

■ 66, 118, 207

■ 4, 79, 207

■ 86, 131, 207

■ 0, 77, 207

■ 107, 144, 207

■ 128, 157, 207

■ 149, 170, 207

■ 169, 183, 207

■ 190, 196, 207

■ 211, 208, 207

■ 231, 224, 207

# Harmonies

## Analogous

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



0, 84, 193



45, 105, 207



125, 127, 201

# Triad

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



45, 105, 207



203, 105, 106



82, 143, 149

# Complementary

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



45, 105, 207



207, 159, 45

# 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, 141, 78



45, 105, 207



189, 138, 76

# Square

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



45, 105, 207



198, 104, 143



105, 162, 59



0, 83, 152

# Rectangle

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



45, 105, 207



159, 118, 187



105, 162, 59



79, 147, 128

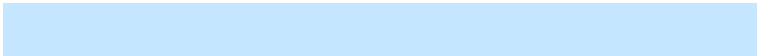


# Sweetspot

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



45, 105, 207



196, 218, 255



45, 161, 207



92, 105, 128



0, 0, 0



128, 128, 128

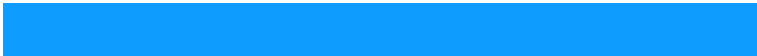


# Same Dimension

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



45, 105, 207



15, 104, 255



45, 60, 207



94, 98, 105



0, 62, 168



0, 15, 41



# Inverse Universe

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



207, 45, 140



255, 15, 156



63, 207, 45



105, 94, 100



168, 0, 99



41, 0, 24



# Previews

## White Background



This preview shows how the RYB color 45, 105, 207 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 45, 105, 207 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 45, 105, 207 Background



This preview shows how black text looks on a background with the RYB color 45, 105, 207.

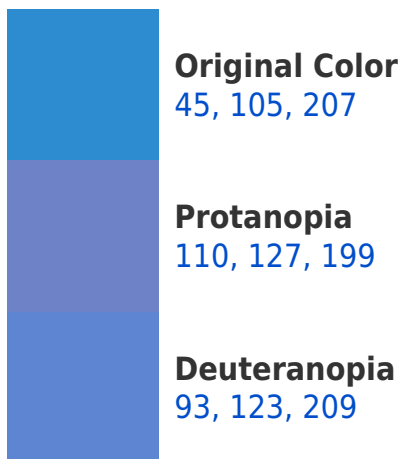


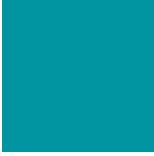
This preview shows how white text looks on a background with the RYB color 45, 105, 207.

# 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](#).

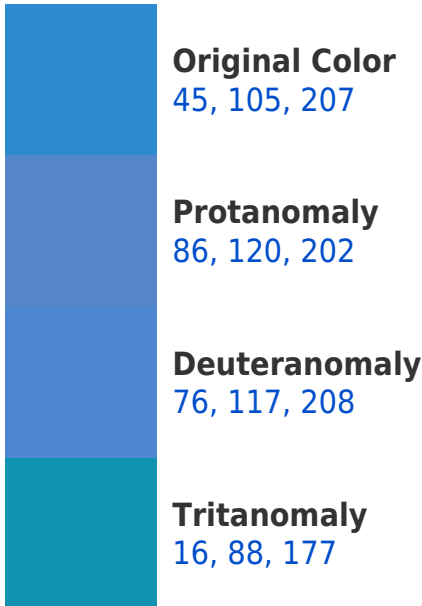
## Dichromacy



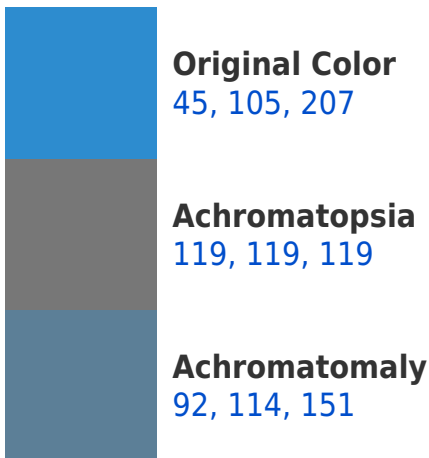


**Tritanopia**  
0, 77, 160

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to RYB 45, 105, 207 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(45, 140, 207)` looks like.

```
.text, #text, p{  
    color:rgb(45, 140, 207)  
}
```

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(45, 140, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 140, 207) }
```

## Border

The CSS property to change the border of an element to RYB 45, 105, 207 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(45, 140, 207) }
```

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

```
.border{ border-color:rgb(45, 140, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 140, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 140, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 140, 207);  
box-shadow:4px 4px 4px 4px rgb(45, 140,  
207) }
```

# Background

The CSS property to change the background color of an element to RYB 45, 105, 207 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 140, 207) }
```

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

```
.background{ background-color: rgb(45, 140,  
207) }
```

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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