

# Converting Colors

`RYB(50, 77, 165)`

Have a look what the booklet for  
RYB(50, 77, 165) contains.

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# Color

**R<sub>Y</sub>B(50, 77, 165)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3255A5
RGB	50, 85, 165
RGB Percent	20%, 33%, 65%
CMY	0.8039, 0.6656, 0.3529
CMYK	0.70, 0.48, 0.00, 0.35
HSL	222°, 53%, 42%
HSV	222°, 70%, 65%
XYZ	11.3778, 9.9365, 36.9156
YIQ	83.6550, -46.5400, 17.4600

# Conversions

## Conversions Part 2

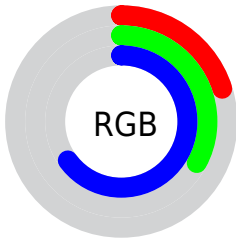
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	50, 77, 165
Decimal	3298725
CIE <sub>Lab</sub>	37.73, 14.83, -46.82
CIE <sub>LCh</sub>	38, 49.117, 287.577
Yxy	9.9365, 0.1954, 0.1706
Android (android.graphics.Color)	4281488805 (0xFF3255A5)
YUV	83.6550, 40.1031, -29.5154
Hunter-Lab	31.5223, 9.2648, -47.3686

# Details

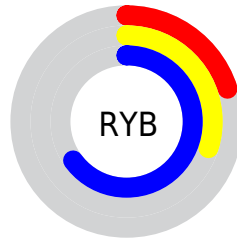
The RYB color **50, 77, 165** is a dark color, and the websafe version is hex **3366CC**. A complement of this color would be **100, 165, 50**, and the grayscale version is **83, 83, 83**.

A 20% lighter version of the original color is **110, 130, 221**, and **0, 30, 112** is the 20% darker color. If you saturate the color by 10%, you get **33, 64, 165**, and if you desaturate by 10%, it is **66, 90, 165**.

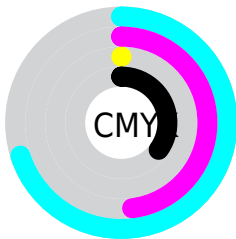
# Distribution



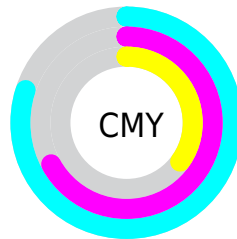
- Red (20%)
- Green (33%)
- Blue (65%)



- Red (20%)
- Yellow (30%)
- Blue (65%)



- Cyan (70%)
- Magenta (48%)
- Yellow (0%)
- Black (35%)






















- Cyan (80%)
- Magenta (67%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 50, 77, 165 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 50, 77, 165 by changing the saturation by 10% instead.



 50, 77, 165	 50, 77, 165
 255, 255, 255	 3, 44, 138
 110, 130, 221	 0, 30, 112
 138, 157, 249	 0, 18, 87
 167, 183, 255	 0, 3, 63
 196, 210, 255	 0, 3, 41
 225, 236, 255	 0, 1, 18
	 0, 0, 0
 50, 77, 165	 50, 77, 165
 33, 64, 165	 66, 90, 165

■ 17, 52, 165

■ 83, 102, 165

■ 0, 39, 165

■ 99, 115, 165

■ 116, 127, 165

■ 132, 140, 165

■ 149, 153, 165

■ 165, 165, 165

■ 172, 182, 165

■ 179, 198, 165

# Harmonies

## Analogous

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



0, 62, 167



50, 77, 165



119, 67, 143

# Triad

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



50, 77, 165



147, 77, 31



0, 64, 106

# Complementary

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



50, 77, 165



100, 165, 50

# 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.



30, 102, 97



50, 77, 165



60, 121, 0

# Square

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



50, 77, 165



159, 48, 67



0, 94, 9



0, 55, 112

# Rectangle

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



50, 77, 165



144, 55, 120



0, 94, 9



0, 68, 105



# Sweetspot

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



50, 77, 165



169, 180, 214



50, 118, 165



80, 87, 107



235, 235, 235



107, 107, 107



# Same Dimension

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



50, 77, 165



34, 76, 214



71, 50, 165



73, 75, 82



0, 34, 145



0, 4, 18



# Inverse Universe

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



165, 50, 85



214, 34, 89



50, 165, 71



82, 73, 76



145, 0, 45



18, 0, 5



# Previews

## White Background



This preview shows how the RYB color 50, 77, 165 looks on a white background.

## Color Contrast Check

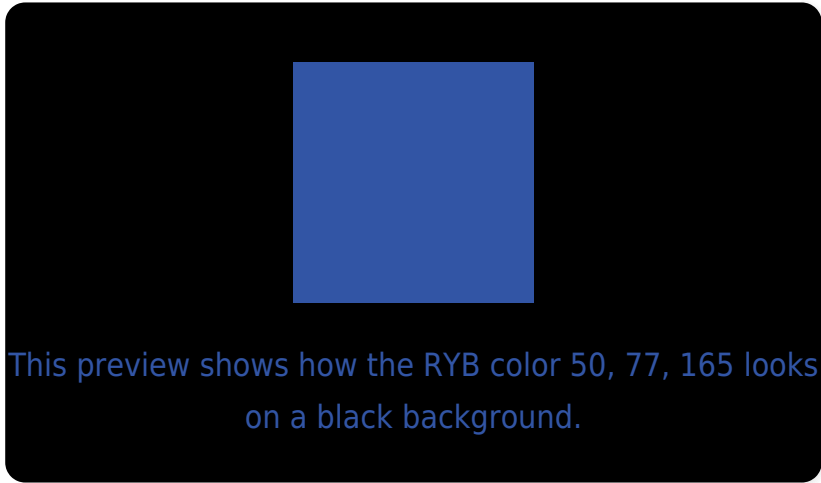
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

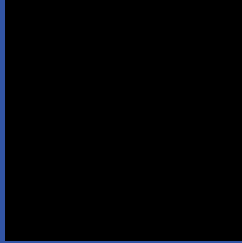
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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



## R Y B 50, 77, 165 Background



This preview shows how black text looks on a background with the R Y B color 50, 77, 165.



This preview shows how white text looks on a background with the R Y B color 50, 77, 165.

# 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**

50, 77, 165

**Protanopia**

46, 76, 166

**Deuteranopia**

0, 57, 159



**Tritanopia**  
0, 51, 106

# Trichromacy



**Original Color**

50, 77, 165

**Protanomaly**

47, 76, 166

**Deuteranomaly**

18, 65, 161

**Tritanomaly**

18, 62, 127

# Monochromacy



**Original Color**

50, 77, 165

**Achromatopsia**

84, 84, 84

**Achromatomaly**

72, 81, 113

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 50, 77, 165 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(50, 85, 165)` looks like.

```
.text, #text, p{  
    color:rgb(50, 85, 165)  
}
```

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(50, 85, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 85, 165) }
```

## Border

The CSS property to change the border of an element to RYB 50, 77, 165 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(50, 85, 165) }
```

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

```
.border{ border-color:rgb(50, 85, 165) }
```

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

Here you see how a box with a 4 pixel rgb(50, 85, 165) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 85, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 85, 165);  
box-shadow:4px 4px 4px 4px rgb(50, 85,  
165) }
```

# Background

The CSS property to change the background color of an element to RGB 50, 85, 165 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 85, 165) }
```

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

```
.background{ background-color: rgb(50, 85,  
165) }
```

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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