

# Converting Colors

`RYB(116, 150, 202)`

Have a look what the booklet for  
RYB(116, 150, 202) contains.

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# **Color**

**R<sub>Y</sub>B(116, 150, 202)**

# Conversions

## Conversions Part 1

Format	Color
Hex	74ACCA
RGB	116, 172, 202
RGB Percent	45%, 67%, 79%
CMY	0.5451, 0.3246, 0.2078
CMYK	0.43, 0.15, 0.00, 0.21
HSL	201°, 45%, 62%
HSV	201°, 43%, 79%
XYZ	32.6596, 37.5702, 61.4076
YIQ	158.6760, -43.0060, -2.5420

# Conversions

## Conversions Part 2

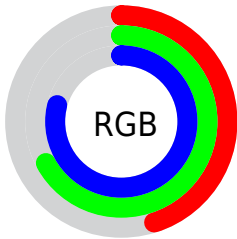
Format	Color
R <sub>YB</sub>	116, 150, 202
Decimal	7646410
CIE <sub>Lab</sub>	67.70, -10.58, -20.93
CIE <sub>LCh</sub>	68, 23.448, 243.183
Y <sub>xy</sub>	37.5702, 0.2481, 0.2854
Android (android.graphics.Color)	4285836490 (0xFF74ACCA)
YUV	158.6760, 21.3587, -37.4269
Hunter-Lab	61.2946, -12.1553, -16.4931

# Details

The RYB color **116, 150, 202** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **202, 162, 116**, and the grayscale version is **159, 159, 159**.

A 20% lighter version of the original color is **171, 205, 255**, and **61, 96, 148** is the 20% darker color. If you saturate the color by 10%, you get **96, 138, 202**, and if you desaturate by 10%, it is **136, 162, 202**.

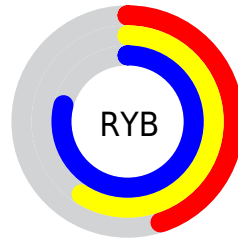
# Distribution



Red (45%)

Green (67%)

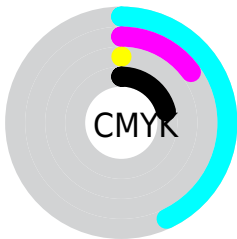
Blue (79%)



Red (45%)

Yellow (59%)

Blue (79%)

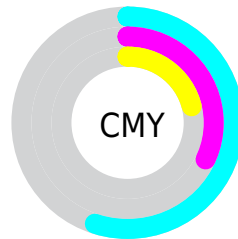


Cyan (43%)

Magenta (15%)

Yellow (0%)

Black (21%)



Cyan (55%)

Magenta (32%)

Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 116, 150, 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 116, 150, 202 by changing the saturation by 10% instead.




 116, 150, 202


255, 255, 255


 171, 205, 255

 200, 228, 255

 229, 242, 255

 116, 150, 202


 89, 123, 175

 61, 96, 148

 31, 69, 122

 0, 41, 97


 0, 29, 73

 0, 18, 51

 0, 2, 30

 0, 0, 0

 116, 150, 202

 116, 150, 202

■ 96, 138, 202

■ 136, 162, 202

■ 76, 126, 202

■ 156, 174, 202

■ 55, 113, 202

■ 177, 187, 202

■ 35, 101, 202

■ 197, 199, 202

■ 15, 89, 202

■ 217, 210, 202

■ 0, 80, 202

■ 237, 220, 202

■ 255, 232, 202

■ 255, 253, 202

■ 234, 255, 202

# Harmonies

## Analogous

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



104, 143, 187



116, 150, 202



142, 160, 207

# Triad

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



116, 150, 202



207, 150, 163



129, 171, 145

# Complementary

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



116, 150, 202



202, 162, 116

# 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.



142, 178, 123



116, 150, 202



207, 153, 143

# Square

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



116, 150, 202



194, 152, 184



197, 178, 128



131, 164, 175

# Rectangle

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



116, 150, 202



162, 161, 204



197, 178, 128



126, 169, 132

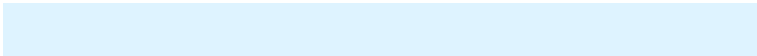


# Sweetspot

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



116, 150, 202



222, 235, 255



116, 180, 202



107, 115, 128



0, 0, 0



128, 128, 128

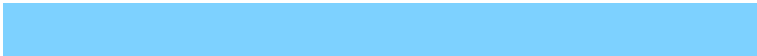


# Same Dimension

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



116, 150, 202



125, 176, 255



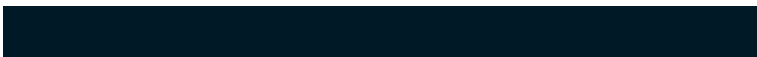
116, 128, 202



92, 96, 102



0, 65, 166



0, 15, 38



# Inverse Universe

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



202, 116, 172



255, 125, 210



133, 202, 116



102, 92, 98



166, 0, 108



38, 0, 25



# Previews

## White Background



This preview shows how the RYB color 116, 150, 202 looks on a white background.

## Color Contrast Check

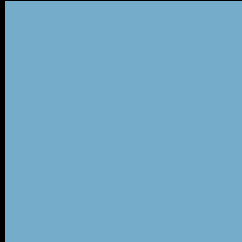
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the RYB color 116, 150, 202 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

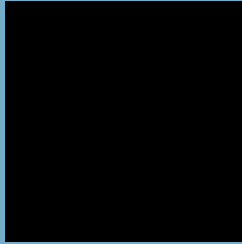
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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



## **RYB 116, 150, 202 Background**



This preview shows how black text looks on a background with the RYB color 116, 150, 202.

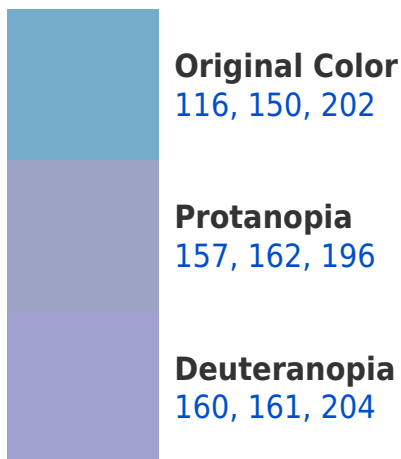


This preview shows how white text looks on a background with the RYB color 116, 150, 202.

# 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





**Tritanopia**  
112, 147, 189

# Trichromacy



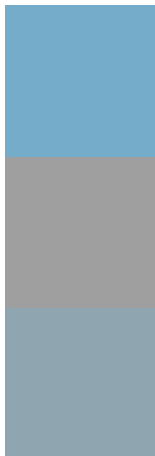
**Original Color**  
116, 150, 202

**Protanomaly**  
142, 159, 198

**Deuteranomaly**  
144, 159, 203

**Tritanomaly**  
113, 148, 194

# Monochromacy



**Original Color**  
116, 150, 202

**Achromatopsia**  
159, 159, 159

**Achromatomaly**  
143, 156, 175

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 116, 150, 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(116, 172, 202)` looks like.

```
.text, #text, p{  
    color:rgb(116, 172, 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(116, 172, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 172, 202) }
```

## Border

The CSS property to change the border of an element to RYB 116, 150, 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(116, 172, 202) }
```

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

```
.border{ border-color:rgb(116, 172, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 172, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 172, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 172, 202);  
box-shadow:4px 4px 4px 4px rgb(116, 172,  
202) }
```

# Background

The CSS property to change the background color of an element to RYB 116, 150, 202 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 172, 202) }
```

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

```
.background{ background-color: rgb(116,  
172, 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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