

# Converting Colors

`RYB(80, 146, 221)`

Have a look what the booklet for  
RYB(80, 146, 221) contains.

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# Color

**R<sub>Y</sub>B(80, 146, 221)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50CCDD
RGB	80, 204, 221
RGB Percent	31%, 80%, 87%
CMY	0.6863, 0.1997, 0.1333
CMYK	0.64, 0.08, 0.00, 0.13
HSL	187°, 67%, 59%
HSV	187°, 64%, 87%
XYZ	37.9713, 50.1497, 76.0852
YIQ	168.8620, -79.3610, -21.0010

# Conversions

## Conversions Part 2

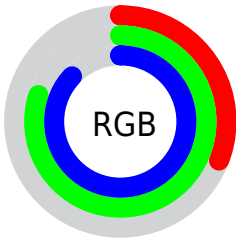
Format	Color
<a href="#">RYB</a>	80, 146, 221
Decimal	5295325
CIELab	76.16, -29.00, -18.58
CIELCh	76, 34.438, 212.649
Yxy	50.1497, 0.2312, 0.3054
Android (android.graphics.Color)	4283485405 (0xFF50CCDD)
YUV	168.8620, 25.7040, -77.9320
Hunter-Lab	70.8165, -28.2183, -14.1296

# Details

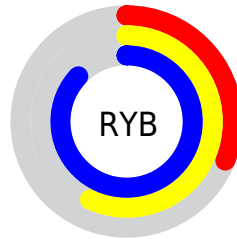
The RYB color **80, 146, 221** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **221, 99, 80**, and the grayscale version is **169, 169, 169**.

A 20% lighter version of the original color is **144, 200, 255**, and **0, 79, 166** is the 20% darker color. If you saturate the color by 10%, you get **58, 134, 221**, and if you desaturate by 10%, it is **102, 158, 221**.

# Distribution



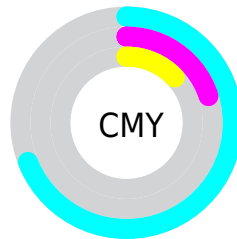
- Red (31%)
- Green (80%)
- Blue (87%)



- Red (31%)
- Yellow (57%)
- Blue (87%)



- Cyan (64%)
- Magenta (8%)
- Yellow (0%)
- Black (13%)



















- Cyan (69%)
- Magenta (20%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 80, 146, 221 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 80, 146, 221 by changing the saturation by 10% instead.



 80, 146, 221	 80, 146, 221
 255, 255, 255	 40, 112, 193
 144, 200, 255	 0, 79, 166
 174, 215, 255	 0, 65, 140
 204, 230, 255	 0, 53, 114
 235, 245, 255	 0, 41, 90
	 0, 29, 66
	 0, 18, 44
	 0, 1, 23
	 0, 0, 0

■ 80, 146, 221

■ 80, 146, 221

■ 58, 134, 221

■ 102, 158, 221

■ 36, 123, 221

■ 124, 169, 221

■ 14, 111, 221

■ 146, 181, 221

■ 0, 103, 221

■ 168, 193, 221

■ 191, 205, 221

■ 213, 217, 221

■ 235, 223, 221

■ 255, 226, 221

■ 255, 230, 221

# Harmonies

## Analogous

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



99, 156, 205



80, 146, 221



103, 160, 243

# Triad

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



80, 146, 221



231, 168, 218



150, 207, 124

# Complementary

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



80, 146, 221



221, 99, 80

# 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.



234, 209, 132



80, 146, 221



249, 164, 186

# Square

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



80, 146, 221



196, 179, 241



249, 169, 155



133, 196, 156

# Rectangle

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



80, 146, 221



133, 173, 250



249, 169, 155



179, 217, 125

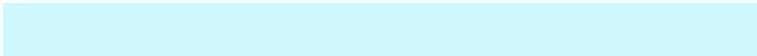


# Sweetspot

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



80, 146, 221



207, 229, 255



80, 207, 221



98, 112, 128



0, 0, 0



128, 128, 128

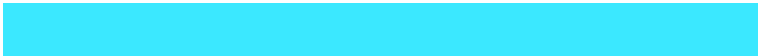


# Same Dimension

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



80, 146, 221



59, 151, 255



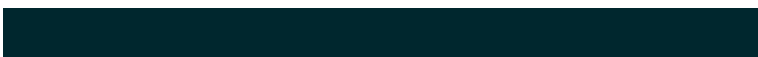
80, 119, 221



99, 104, 110



0, 81, 173



0, 21, 46



# Inverse Universe

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



221, 80, 204



255, 59, 231



168, 221, 80



110, 99, 108



173, 0, 153



46, 0, 40



# Previews

## White Background



This preview shows how the RYB color 80, 146, 221 looks on a white background.

## Color Contrast Check

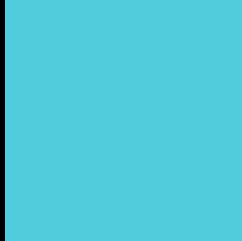
Large Text (above 18pt) WCAG AA × Fail

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 80, 146, 221 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

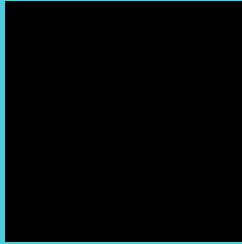
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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



## RYP 80, 146, 221 Background



This preview shows how black text looks on a background with the RYP color 80, 146, 221.

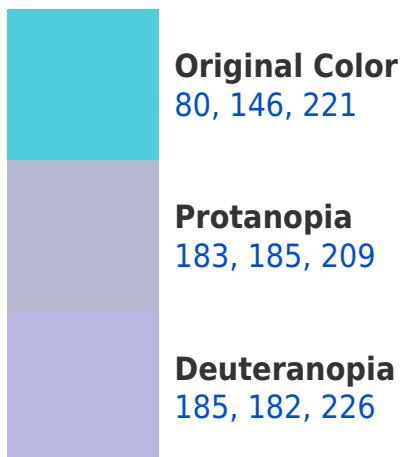


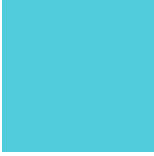
This preview shows how white text looks on a background with the RYP color 80, 146, 221.

# 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**  
80, 146, 221

# Trichromacy



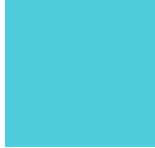
**Original Color**  
80, 146, 221



**Protanomaly**  
146, 173, 213



**Deuteranomaly**  
147, 175, 224

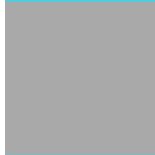


**Tritanomaly**  
80, 146, 221

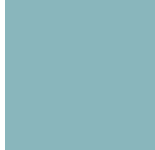
# Monochromacy



**Original Color**  
80, 146, 221



**Achromatopsia**  
169, 169, 169



**Achromatomaly**  
137, 161, 188

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 80, 146, 221 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(80, 204, 221) looks like.

```
.text, #text, p{  
    color:rgb(80, 204, 221)  
}
```

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(80, 204, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 204, 221) }
```

## Border

The CSS property to change the border of an element to RYB 80, 146, 221 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(80, 204, 221) }
```

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

```
.border{ border-color:rgb(80, 204, 221) }
```

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

Here you see how a box with a 4 pixel rgb(80, 204, 221) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 204, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 204, 221);  
box-shadow:4px 4px 4px 4px rgb(80, 204,  
221) }
```

# Background

The CSS property to change the background color of an element to RYB 80, 146, 221 is called "background".

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

```
.background, #background, body{  
background: rgb(80, 204, 221) }
```

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

```
.background{ background-color: rgb(80, 204,  
221) }
```

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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