

Converting Colors

`RYB(80, 145, 209)`

Have a look what the booklet for
RYB(80, 145, 209) contains.

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Color

$\text{RYB}(80, 145, 209)$

Conversions

Conversions Part 1

Format	Color
Hex	50D1CF
RGB	80, 209, 207
RGB Percent	31%, 82%, 81%
CMY	0.6863, 0.1804, 0.1882
CMYK	0.62, 0.00, 0.01, 0.18
HSL	179°, 58%, 57%
HSV	179°, 62%, 82%
XYZ	37.3731, 51.8121, 67.0723
YIQ	170.2010, -76.2420, -27.9700

Conversions

Conversions Part 2

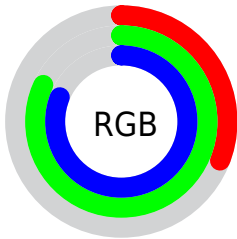
Format	Color
RYB	80, 145, 209
Decimal	5296591
CIELab	77.17, -35.28, -9.54
CIElCh	77, 36.549, 195.127
Yxy	51.8121, 0.2392, 0.3316
Android (android.graphics.Color)	4283486671 (0xFF50D1CF)
YUV	170.2010, 18.1419, -79.1063
Hunter-Lab	71.9807, -33.2871, -4.8606

Details

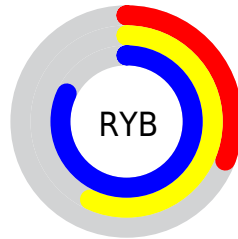
The RYB color **80, 145, 209** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **209, 80, 82**, and the grayscale version is **170, 170, 170**.

A 20% lighter version of the original color is **143, 199, 255**, and **0, 77, 154** is the 20% darker color. If you saturate the color by 10%, you get **59, 135, 209**, and if you desaturate by 10%, it is **101, 156, 209**.

Distribution



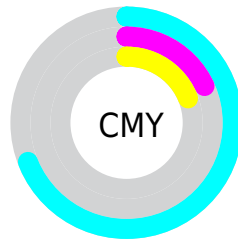
- Red (31%)
- Green (82%)
- Blue (81%)



- Red (31%)
- Yellow (57%)
- Blue (82%)



- Cyan (62%)
- Magenta (0%)
- Yellow (1%)
- Black (18%)



















- Cyan (69%)
- Magenta (18%)
- Yellow (19%)

Brightness & Saturation Gradients

These gradients show how the RYB color 80, 145, 209 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, 145, 209 by changing the saturation by 10% instead.

 80, 145, 209	 80, 145, 209
 255, 255, 255	 41, 111, 181
 143, 199, 255	 0, 77, 154
 173, 214, 255	 0, 64, 128
 203, 229, 255	 0, 51, 102
 234, 245, 255	 0, 39, 78
	 0, 27, 55
	 0, 17, 34
	 0, 0, 11
	 0, 0, 0

■ 80, 145, 209

■ 80, 145, 209

■ 59, 135, 209

■ 101, 156, 209

■ 38, 124, 209

■ 122, 166, 209

■ 17, 114, 209

■ 143, 176, 209

■ 0, 105, 209

■ 164, 187, 209

■ 185, 197, 209

■ 205, 207, 209

■ 226, 209, 209

■ 247, 209, 210

■ 255, 209, 210

Harmonies

Analogous

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



117, 174, 208



80, 145, 209



75, 147, 237

Triad

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



80, 145, 209



216, 176, 239



207, 229, 125

Complementary

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



80, 145, 209



209, 80, 82

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.



251, 182, 144



80, 145, 209



246, 167, 209

Square

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



80, 145, 209



171, 185, 255



255, 165, 174



126, 196, 124

Rectangle

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



80, 145, 209



101, 161, 251



255, 165, 174



237, 220, 130

Sweetspot

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



80, 145, 209



207, 231, 255



80, 209, 207



98, 113, 128



0, 0, 0



128, 128, 128

Same Dimension

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



80, 145, 209



66, 161, 255



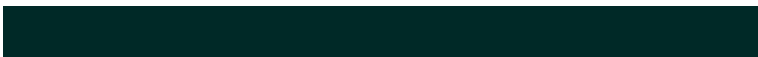
80, 124, 209



94, 100, 105



0, 85, 168



0, 21, 41

Inverse Universe

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



209, 80, 82



255, 66, 69



209, 199, 80



105, 94, 94



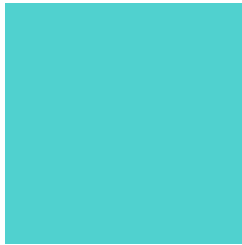
168, 0, 3



41, 0, 1

Previews

White Background



This preview shows how the RYB color 80, 145, 209 looks on a white background.

Color Contrast Check

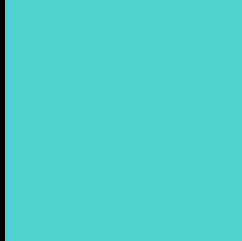
Large Text (above 18pt) WCAG AA × Fail

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, 145, 209 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

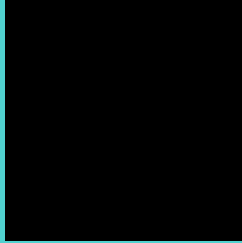
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

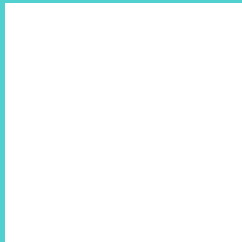
Any Text WCAG AAA ✓ Pass

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

R Y B 80, 145, 209 Background



This preview shows how black text looks on a background with the RYB color 80, 145, 209.

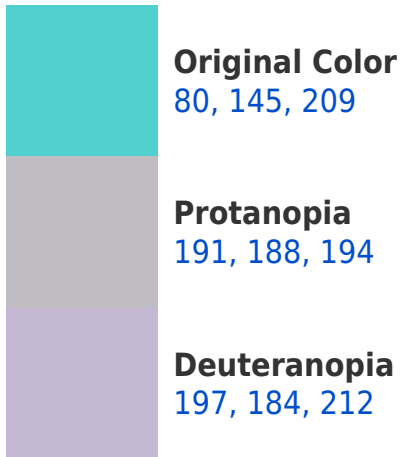


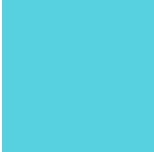
This preview shows how white text looks on a background with the RYB color 80, 145, 209.

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
87, 151, 223

Trichromacy



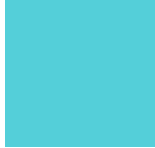
Original Color
80, 145, 209



Protanomaly
151, 174, 199



Deuteranomaly
154, 177, 210

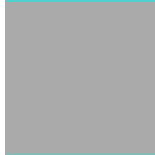


Tritanomaly
84, 148, 217

Monochromacy



Original Color
80, 145, 209



Achromatopsia
170, 170, 170



Achromatomaly
137, 161, 184

CSS Examples

Text

The CSS property to change the color of the text to RYB 80, 145, 209 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, 209, 207)` looks like.

```
.text, #text, p{  
    color:rgb(80, 209, 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(80, 209, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 209, 207) }
```

Border

The CSS property to change the border of an element to RYB 80, 145, 209 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, 209, 207) }
```

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

```
.border{ border-color:rgb(80, 209, 207) }
```

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

Here you see how a box with a 4 pixel rgb(80, 209, 207) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 209, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 209, 207);  
box-shadow:4px 4px 4px 4px rgb(80, 209,  
207) }
```

Background

The CSS property to change the background color of an element to RYB 80, 145, 209 is called "background".

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

```
.background, #background, body{  
background: rgb(80, 209, 207) }
```

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

```
.background{ background-color: rgb(80, 209,  
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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