

Converting Colors

`RYB(80, 159, 221)`

Have a look what the booklet for
RYB(80, 159, 221) contains.

RYB(80, 159, 221)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	26
<i>CSS Examples</i>	29

Color

`RYB(80, 159, 221)`

Conversions

Conversions Part 1

Format	Color
Hex	50DDBF
RGB	80, 221, 191
RGB Percent	31%, 87%, 75%
CMY	0.6863, 0.1333, 0.2523
CMYK	0.64, 0.00, 0.14, 0.13
HSL	167°, 67%, 59%
HSV	167°, 64%, 87%
XYZ	38.5311, 57.1649, 58.0964
YIQ	175.4210, -74.4060, -39.2220

Conversions

Conversions Part 2

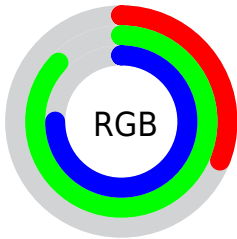
Format	Color
RYB	80, 159, 221
Decimal	5299647
CIELab	80.27, -44.92, 3.77
CIELCh	80, 45.074, 175.201
Yxy	57.1649, 0.2505, 0.3717
Android (android.graphics.Color)	4283489727 (0xFF50DDBF)
YUV	175.4210, 7.6804, -83.6842
Hunter-Lab	75.6075, -41.3459, 7.3671

Details

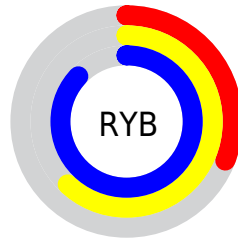
The RYB color **80, 159, 221** is a light color, and the websafe version is hex **33CC99**. The color can be described as light muted spring green. A complement of this color would be **221, 80, 110**, and the grayscale version is **175, 175, 175**.

A 20% lighter version of the original color is **143, 201, 255**, and **0, 90, 165** is the 20% darker color. If you saturate the color by 10%, you get **58, 149, 221**, and if you desaturate by 10%, it is **102, 169, 221**.

Distribution



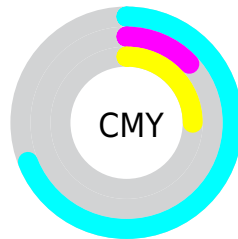
- Red (31%)
- Green (87%)
- Blue (75%)



- Red (31%)
- Yellow (62%)
- Blue (87%)



- Cyan (64%)
- Magenta (0%)
- Yellow (14%)
- Black (13%)



















- Cyan (69%)
- Magenta (13%)
- Yellow (25%)

Brightness & Saturation Gradients

These gradients show how the RYB color 80, 159, 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, 159, 221 by changing the saturation by 10% instead.

 80, 159, 221	 80, 159, 221
 255, 255, 255	 41, 125, 193
 143, 201, 255	 0, 90, 165
 174, 215, 255	 0, 76, 138
 204, 230, 255	 0, 63, 112
 234, 245, 255	 0, 50, 87
	 0, 37, 62
	 0, 27, 41
	 0, 2, 2
	 0, 0, 0

■ 80, 159, 221

■ 80, 159, 221

■ 58, 149, 221

■ 102, 169, 221

■ 36, 140, 221

■ 124, 178, 221

■ 14, 130, 221

■ 146, 188, 221

■ 0, 124, 221

■ 168, 198, 221

■ 191, 208, 221

■ 213, 218, 221

■ 235, 221, 224

■ 255, 221, 229

■ 255, 221, 233

Harmonies

Analogous

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



141, 208, 216



80, 159, 221



0, 114, 234

Triad

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



80, 159, 221



194, 191, 255



255, 212, 131

Complementary

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



80, 159, 221



221, 80, 110

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.



255, 168, 165



80, 159, 221



246, 176, 248

Square

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



80, 159, 221



123, 174, 255



255, 166, 208



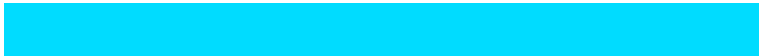
170, 232, 114

Rectangle

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



80, 159, 221



0, 118, 255



255, 166, 208



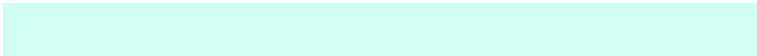
255, 189, 141

Sweetspot

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



80, 159, 221



207, 234, 255



80, 221, 190



98, 115, 128



0, 0, 0



128, 128, 128

Same Dimension

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



80, 159, 221



59, 169, 255



80, 139, 221



99, 105, 110



0, 97, 173



0, 26, 46

Inverse Universe

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



221, 80, 110



255, 59, 101



221, 136, 80



110, 99, 101



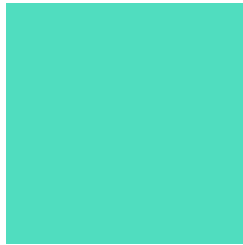
173, 0, 37



46, 0, 10

Previews

White Background



This preview shows how the RYB color 80, 159, 221 looks on a white background.

Color Contrast Check

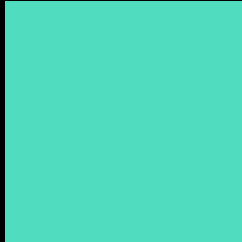
Large Text (above 18pt) WCAG AA × Fail

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, 159, 221 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

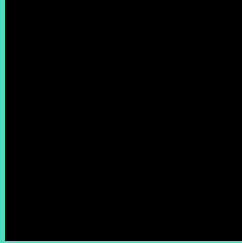
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

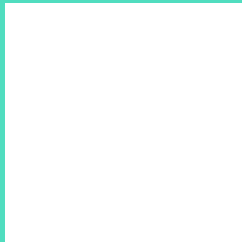
Any Text WCAG AAA ✓ Pass

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

RYB 80, 159, 221 Background



This preview shows how black text looks on a background with the RYB color 80, 159, 221.

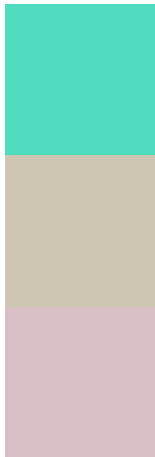


This preview shows how white text looks on a background with the RYB color 80, 159, 221.

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



Original Color
80, 159, 221

Protanopia
191, 206, 178

Deuteranopia
217, 191, 197

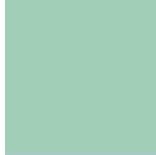


Tritanopia
97, 160, 232

Trichromacy



Original Color
80, 159, 221



Protanomaly
160, 191, 206



Deuteranomaly
167, 186, 202

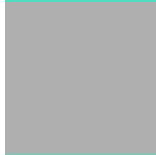


Tritanomaly
91, 154, 217

Monochromacy



Original Color
80, 159, 221



Achromatopsia
175, 175, 175



Achromatomaly
140, 169, 192

CSS Examples

Text

The CSS property to change the color of the text to RYB 80, 159, 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, 221, 191)` looks like.

```
.text, #text, p{  
    color:rgb(80, 221, 191)  
}
```

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, 221, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 221, 191) }
```

Border

The CSS property to change the border of an element to RYB 80, 159, 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, 221, 191) }
```

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

```
.border{ border-color:rgb(80, 221, 191) }
```

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

Here you see how a box with a 4 pixel rgb(80, 221, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 221, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 221, 191);  
box-shadow:4px 4px 4px 4px rgb(80, 221,  
191) }
```

Background

The CSS property to change the background color of an element to RYB 80, 159, 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, 221, 191) }
```

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

```
.background{ background-color: rgb(80, 221,  
191) }
```

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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