

Converting Colors

`RYB(51, 117, 176)`

Have a look what the booklet for
RYB(51, 117, 176) contains.

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Color

$\text{RYB}(51, 117, 176)$

Conversions

Conversions Part 1

Format	Color
Hex	33B0A3
RGB	51, 176, 163
RGB Percent	20%, 69%, 64%
CMY	0.8000, 0.3098, 0.3618
CMYK	0.71, 0.00, 0.08, 0.31
HSL	174°, 55%, 45%
HSV	174°, 71%, 69%
XYZ	23.4784, 34.3896, 39.9299
YIQ	137.1430, -70.3270, -30.5430

Conversions

Conversions Part 2

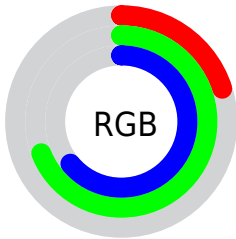
Format	Color
RYB	51, 117, 176
Decimal	3387555
CIELab	65.27, -36.58, -3.03
CIELCh	65, 36.707, 184.741
Yxy	34.3896, 0.2401, 0.3516
Android (android.graphics.Color)	4281577635 (0xFF33B0A3)
YUV	137.1430, 12.7475, -75.5474
Hunter-Lab	58.6426, -31.1597, 0.6792

Details

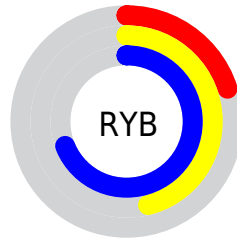
The RYB color **51, 117, 176** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **176, 51, 64**, and the grayscale version is **137, 137, 137**.

A 20% lighter version of the original color is **115, 177, 232**, and **0, 65, 123** is the 20% darker color. If you saturate the color by 10%, you get **33, 108, 176**, and if you desaturate by 10%, it is **69, 125, 176**.

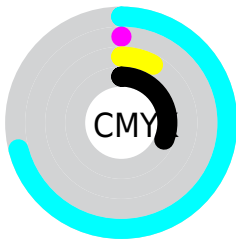
Distribution



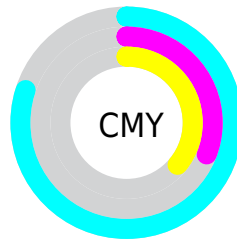
- Red (20%)
- Green (69%)
- Blue (64%)



- Red (20%)
- Yellow (46%)
- Blue (69%)



- Cyan (71%)
- Magenta (0%)
- Yellow (8%)
- Black (31%)




- Cyan (80%)
- Magenta (31%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the RYB color 51, 117, 176 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 51, 117, 176 by changing the saturation by 10% instead.

 51, 117, 176

255, 255, 255


 115, 177, 232

 145, 202, 255

 175, 215, 255


 204, 230, 255

 234, 245, 255

 51, 117, 176

 0, 78, 149

 0, 65, 123


 0, 51, 97


 0, 39, 73


 0, 26, 49


 0, 16, 28

 0, 0, 0

 51, 117, 176

 33, 108, 176

 51, 117, 176

 69, 125, 176

■ 16, 100, 176

■ 86, 134, 176

■ 0, 93, 176

■ 104, 142, 176

■ 121, 150, 176

■ 139, 159, 176

■ 157, 167, 176

■ 174, 175, 176

■ 192, 176, 178

■ 209, 176, 180

Harmonies

Analogous

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



100, 153, 174



51, 117, 176



0, 92, 195

Triad

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



51, 117, 176



169, 148, 212



203, 186, 100

Complementary

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



51, 117, 176



176, 51, 64

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.



220, 139, 123



51, 117, 176



204, 137, 187

Square

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



51, 117, 176



119, 148, 224



221, 133, 154



113, 175, 92

Rectangle

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



51, 117, 176



34, 112, 211



221, 133, 154



210, 163, 106

Sweetspot

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



51, 117, 176



181, 207, 230



51, 176, 161



86, 101, 115



242, 242, 242



115, 115, 115

Same Dimension

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



51, 117, 176



34, 138, 230



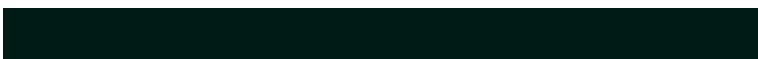
51, 99, 176



80, 85, 89



0, 81, 153



0, 14, 26

Inverse Universe

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



176, 51, 64



230, 34, 55



176, 129, 51



89, 80, 81



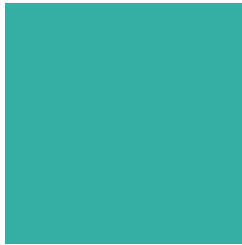
153, 0, 16



26, 0, 3

Previews

White Background



This preview shows how the RYB color 51, 117, 176 looks on a white background.

Color Contrast Check

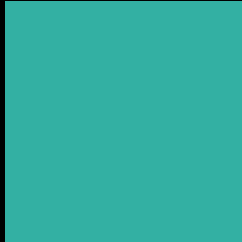
Large Text (above 18pt) WCAG AA × Fail

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 51, 117, 176 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 51, 117, 176 Background



This preview shows how black text looks on a background with the R Y B color 51, 117, 176.

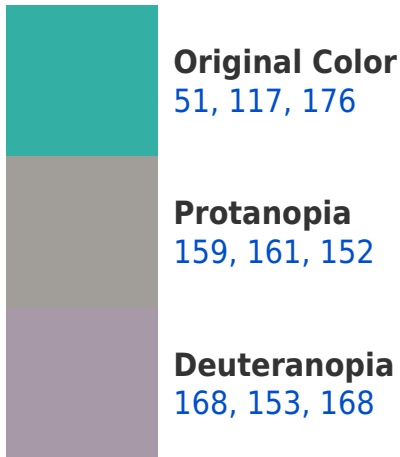


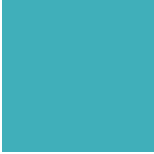
This preview shows how white text looks on a background with the R Y B color 51, 117, 176.

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
64, 122, 186

Trichromacy



Original Color

51, 117, 176



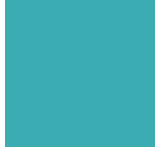
Protanomaly

121, 145, 164



Deuteranomaly

125, 144, 166



Tritanomaly

59, 117, 178

Monochromacy



Original Color

51, 117, 176



Achromatopsia

137, 137, 137



Achromatomaly

106, 130, 151

CSS Examples

Text

The CSS property to change the color of the text to RYB 51, 117, 176 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(51, 176, 163)` looks like.

```
.text, #text, p{  
    color:rgb(51, 176, 163)  
}
```

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(51, 176, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 176, 163) }
```

Border

The CSS property to change the border of an element to RYB 51, 117, 176 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(51, 176, 163) }
```

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

```
.border{ border-color:rgb(51, 176, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 176, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 176, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 176, 163);  
box-shadow:4px 4px 4px 4px rgb(51, 176,  
163) }
```

Background

The CSS property to change the background color of an element to RYB 51, 117, 176 is called "background".

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

```
.background, #background, body{  
background: rgb(51, 176, 163) }
```

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

```
.background{ background-color: rgb(51, 176,  
163) }
```

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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