

Converting Colors

`RYB(45, 118, 180)`

Have a look what the booklet for
RYB(45, 118, 180) contains.

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Color

$\text{RYB}(45, 118, 180)$

Conversions

Conversions Part 1

Format	Color
Hex	2DB4A0
RGB	45, 180, 160
RGB Percent	18%, 71%, 63%
CMY	0.8235, 0.2941, 0.3739
CMYK	0.75, 0.00, 0.11, 0.29
HSL	171°, 60%, 44%
HSV	171°, 75%, 71%
XYZ	23.7187, 35.7265, 38.7466
YIQ	137.3550, -74.0400, -34.8400

Conversions

Conversions Part 2

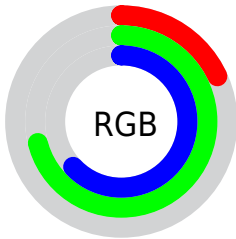
Format	Color
RYB	45, 118, 180
Decimal	2995360
CIELab	66.31, -40.00, 0.19
CIElCh	66, 39.997, 179.732
Yxy	35.7265, 0.2416, 0.3638
Android (android.graphics.Color)	4281185440 (0xFF2DB4A0)
YUV	137.3550, 11.1640, -80.9953
Hunter-Lab	59.7716, -33.7677, 3.4057

Details

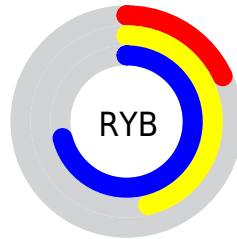
The RYB color **45, 118, 180** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **180, 45, 65**, and the grayscale version is **137, 137, 137**.

A 20% lighter version of the original color is **112, 180, 236**, and **0, 68, 126** is the 20% darker color. If you saturate the color by 10%, you get **27, 110, 180**, and if you desaturate by 10%, it is **63, 126, 180**.

Distribution



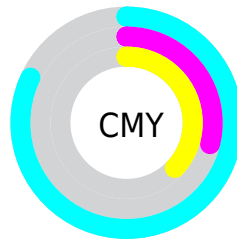
- Red (18%)
- Green (71%)
- Blue (63%)



- Red (18%)
- Yellow (46%)
- Blue (71%)



- Cyan (75%)
- Magenta (0%)
- Yellow (11%)
- Black (29%)




- Cyan (82%)
- Magenta (29%)
- Yellow (37%)


Brightness & Saturation Gradients

These gradients show how the RYB color 45, 118, 180 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 45, 118, 180 by changing the saturation by 10% instead.

 45, 118, 180

255, 255, 255


 112, 181, 237

 142, 202, 255

 172, 214, 255

 202, 229, 255

 232, 244, 255

 45, 118, 180


 0, 82, 153

 0, 68, 126


 0, 55, 101


 0, 42, 76


 0, 30, 52


 0, 19, 31

 0, 0, 0

 45, 118, 180

 27, 110, 180

 45, 118, 180

 63, 126, 180

■ 9, 102, 180

■ 81, 135, 180

■ 0, 97, 180

■ 99, 143, 180

■ 117, 151, 180

■ 135, 159, 180

■ 153, 168, 180

■ 171, 176, 180

■ 189, 180, 181

■ 207, 180, 184

Harmonies

Analogous

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



104, 161, 177



45, 118, 180



0, 94, 196

Triad

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



45, 118, 180



164, 152, 224



213, 178, 100

Complementary

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



45, 118, 180



180, 45, 65

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.



229, 137, 127



45, 118, 180



206, 139, 198

Square

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



45, 118, 180



105, 146, 233



228, 133, 163



122, 184, 88

Rectangle

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



45, 118, 180



0, 97, 215



228, 133, 163



220, 157, 108

Sweetspot

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



45, 118, 180



181, 210, 235



45, 180, 158



84, 102, 117



245, 245, 245



117, 117, 117

Same Dimension

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



45, 118, 180



23, 138, 235



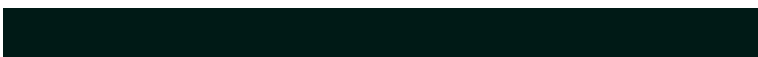
45, 99, 180



80, 85, 89



0, 83, 153



0, 14, 26

Inverse Universe

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



180, 45, 65



235, 23, 55



180, 113, 45



89, 80, 82



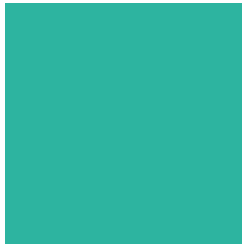
153, 0, 23



26, 0, 4

Previews

White Background



This preview shows how the RYB color 45, 118, 180 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 45, 118, 180 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

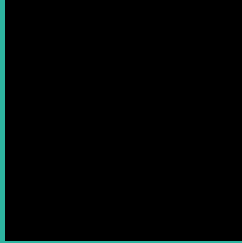
Any Text WCAG AA ✓ Pass

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 45, 118, 180 Background



This preview shows how black text looks on a background with the RYB color 45, 118, 180.

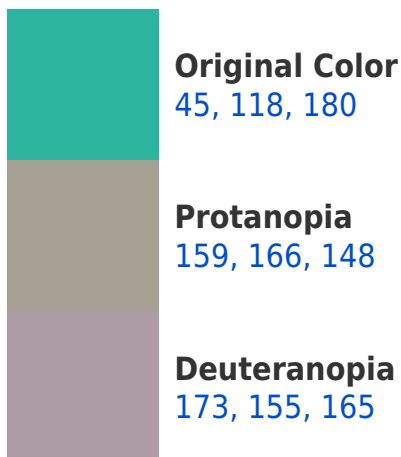


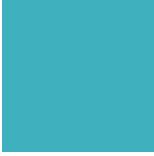
This preview shows how white text looks on a background with the RYB color 45, 118, 180.

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
63, 123, 190

Trichromacy



Original Color

45, 118, 180



Protanomaly

122, 149, 167



Deuteranomaly

126, 145, 164



Tritanomaly

56, 117, 179

Monochromacy



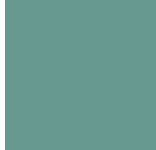
Original Color

45, 118, 180



Achromatopsia

137, 137, 137



Achromatomaly

104, 131, 153

CSS Examples

Text

The CSS property to change the color of the text to RYB 45, 118, 180 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(45, 180, 160)` looks like.

```
.text, #text, p{  
    color:rgb(45, 180, 160)  
}
```

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(45, 180, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 180, 160) }
```

Border

The CSS property to change the border of an element to RYB 45, 118, 180 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(45, 180, 160) }
```

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

```
.border{ border-color:rgb(45, 180, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 180, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 180, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 180, 160);  
box-shadow:4px 4px 4px 4px rgb(45, 180,  
160) }
```

Background

The CSS property to change the background color of an element to RYB 45, 118, 180 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 180, 160) }
```

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

```
.background{ background-color: rgb(45, 180,  
160) }
```

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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