

Converting Colors

`RYB(45, 80, 115)`

Have a look what the booklet for
RYB(45, 80, 115) contains.

RYB(45, 80, 115)	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

R_YB(45, 80, 115)

Conversions

Conversions Part 1

Format	Color
Hex	2D7373
RGB	45, 115, 115
RGB Percent	18%, 45%, 45%
CMY	0.8235, 0.5490, 0.5490
CMYK	0.61, 0.00, 0.00, 0.55
HSL	180°, 44%, 31%
HSV	180°, 61%, 45%
XYZ	10.3074, 14.0572, 18.3897
YIQ	94.0700, -41.7200, -14.8400

Conversions

Conversions Part 2

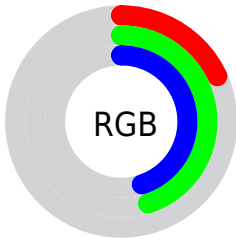
Format	Color
RYB	45, 80, 115
Decimal	2978675
CIELab	44.31, -21.54, -6.56
CIELCh	44, 22.518, 196.941
Yxy	14.0572, 0.2411, 0.3288
Android (android.graphics.Color)	4281168755 (0xFF2D7373)
YUV	94.0700, 10.3185, -43.0344
Hunter-Lab	37.4929, -16.5398, -2.8358




Details

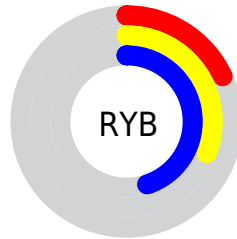
The RYB color **45, 80, 115** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **115, 45, 45**, and the grayscale version is **94, 94, 94**.




A 20% lighter version of the original color is **99, 133, 167**, and **0, 33, 67** is the 20% darker color. If you saturate the color by 10%, you get **33, 74, 115**, and if you desaturate by 10%, it is **57, 86, 115**.

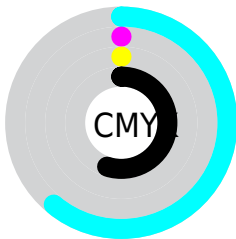
Distribution







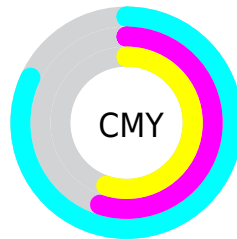
-  Red (18%)
-  Green (45%)
-  Blue (45%)






-  Red (18%)
-  Yellow (31%)
-  Blue (45%)



-  Cyan (61%)
-  Magenta (0%)
-  Yellow (0%)
-  Black (55%)



-  Cyan (82%)
-  Magenta (55%)
-  Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the RYB color 45, 80, 115 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, 80, 115 by changing the saturation by 10% instead.



45, 80, 115



45, 80, 115

255, 255, 255



10, 50, 90



99, 133, 167



0, 33, 67



126, 161, 195



0, 22, 45



154, 189, 223



0, 12, 24



182, 217, 251



0, 0, 0



210, 233, 255



239, 247, 255



45, 80, 115



45, 80, 115



33, 74, 115



57, 86, 115

■ 22, 69, 115

■ 68, 92, 115

■ 10, 63, 115

■ 80, 98, 115

■ 0, 58, 115

■ 91, 103, 115

■ 103, 109, 115

■ 114, 115, 115

■ 126, 115, 115

■ 137, 115, 115

■ 148, 115, 115

Harmonies

Analogous

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



64, 94, 114



45, 80, 115



45, 83, 132

Triad

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



45, 80, 115



120, 96, 130



111, 125, 69

Complementary

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



45, 80, 115



115, 45, 45

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.



138, 102, 78



45, 80, 115



136, 92, 114

Square

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



45, 80, 115



96, 102, 140



142, 91, 95



69, 107, 69

Rectangle

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



45, 80, 115



58, 90, 139



142, 91, 95



130, 124, 71

Sweetspot

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



45, 80, 115



123, 137, 150



45, 115, 115



60, 69, 77



204, 204, 204



77, 77, 77

Same Dimension

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



45, 80, 115



41, 96, 150



45, 68, 115



53, 56, 59



0, 61, 122



0, 125, 250

Inverse Universe

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



115, 45, 115



150, 41, 150



115, 115, 45



59, 53, 59



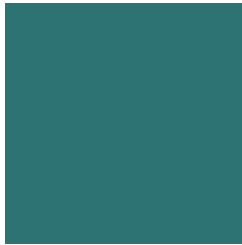
122, 0, 122



250, 0, 250

Previews

White Background



This preview shows how the RYB color 45, 80, 115 looks on a white 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 × Fail

Black Background



This preview shows how the RYB color 45, 80, 115 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

R Y B 45, 80, 115 Background



This preview shows how black text looks on a background with the R Y B color 45, 80, 115.



This preview shows how white text looks on a background with the R Y B color 45, 80, 115.

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
49, 84, 123

Trichromacy



Original Color
45, 80, 115

Protanomaly
83, 96, 111

Deuteranomaly
85, 98, 117

Tritanomaly
48, 82, 120

Monochromacy



Original Color
45, 80, 115

Achromatopsia
94, 94, 94

Achromatomaly
76, 89, 102

CSS Examples

Text

The CSS property to change the color of the text to RYB 45, 80, 115 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, 115, 115)` looks like.

```
.text, #text, p{  
    color:rgb(45, 115, 115)  
}
```

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, 115, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 115, 115) }
```

Border

The CSS property to change the border of an element to RYB 45, 80, 115 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, 115, 115) }
```

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

```
.border{ border-color:rgb(45, 115, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 115, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 115, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 115, 115);  
box-shadow:4px 4px 4px 4px rgb(45, 115,  
115) }
```

Background

The CSS property to change the background color of an element to RYB 45, 80, 115 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 115, 115) }
```

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

```
.background{ background-color: rgb(45, 115,  
115) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor