Converting Colors

RYB(45, 108, 172)

Have a look what the booklet for RYB(45, 108, 172) contains.

Color

RYB(45, 108, 172)

Conversions

Conversions Part 1

Format	Color
Hex	2DAAAC
RGB	45, 170, 172
RGB Percent	18%, 67%, 67%
CMY	0.8235, 0.3333, 0.3255
CMYK	0.74, 0.01, 0.00, 0.33
HSL	181°, 59%, 43%
HSV	181°, 74%, 67%
XYZ	22.9062, 32.2918, 44.0554
YIQ	132.8530, -75.1420, -25.8780

Conversions

Conversions Part 2

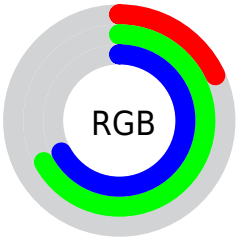
Format	Color
RYB	45, 108, 172
Decimal	2992812
CIELab	63.58, -31.88, -10.71
CIELCh	64, 33.630, 198.576
Yxy	32.2918, 0.2308, 0.3253
Android (android.graphics.Color)	4281182892 (0xFF2DAAAC)
YUV	132.8530, 19.2995, -77.0471
Hunter-Lab	56.8258, -27.4927, -6.1877

Details

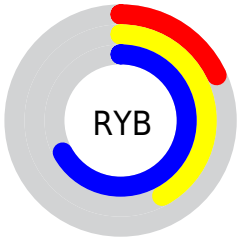
The RYB color 45, 108, 172 is a dark color, and the websafe version is hex 009999. A complement of this color would be 172, 47, 45, and the grayscale version is 133, 133, 133.

A 20% lighter version of the original color is 112, 169, 227, and 0, 59, 120 is the 20% darker color. If you saturate the color by 10%, you get 28, 99, 172, and if you desaturate by 10%, it is 62, 116, 172.

Distribution

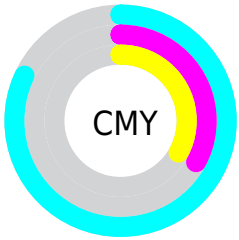


- Red (18%)
- Green (67%)
- Blue (67%)



- Red (18%)
- Yellow (42%)
- Blue (67%)

- Cyan (74%)
- Magenta (1%)
- Yellow (0%)
- Black (33%)



- Cyan (82%)
- Magenta (33%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the RYB color 45, 108, 172 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, 108, 172 by changing the saturation by 10% instead.

45, 108, 172

255, 255, 255

112, 169, 227

142, 199, 255

171, 213, 255

201, 228, 255

231, 243, 255

45, 108, 172

0, 72, 145

0, 59, 120

0, 47, 95

0, 35, 71

0, 23, 49

0, 12, 28

0, 0, 0

45, 108, 172

28, 99, 172

45, 108, 172

62, 116, 172

11, 91, 172

0, 85, 172

79, 125, 172

97, 134, 172

114, 143, 172

131, 151, 172

148, 160, 172

165, 169, 172

183, 172, 172

200, 172, 172

Harmonies

Analogous

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

83, 134, 169

45, 108, 172

45, 113, 198

Triad

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

45, 108, 172

180, 140, 194

155, 184, 95

Complementary

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

45, 108, 172

172, 47, 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.

205, 150, 110

45, 108, 172

205, 132, 167

Square

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

45, 108, 172

141, 149, 211

213, 132, 136

96, 158, 99

Rectangle

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

45, 108, 172

75, 128, 209

213, 132, 136

192, 190, 99

Sweetspot

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

45, 108, 172

175, 200, 224

45, 172, 172

83, 98, 112

240, 240, 240

112, 112, 112

Same Dimension

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

45, 108, 172

25, 124, 224

45, 88, 172

78, 83, 87

0, 74, 150

0, 12, 23

Inverse Universe

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

172, 45, 170

224, 25, 221

170, 172, 45

87, 78, 87

150, 0, 148

23, 0, 23

Previews

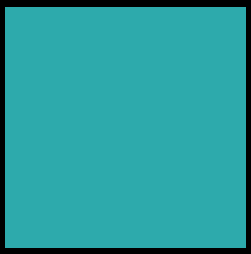
White Background

This preview shows how the RYB color 45, 108, 172 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



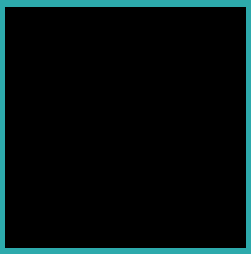
This preview shows how the RYB color 45, 108, 172 looks on a black background.

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, 108, 172 Background



This preview shows how black text looks on a background with the RYB color 45, 108, 172.

This preview shows how white text looks on a background with the RYB color 45, 108, 172.

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

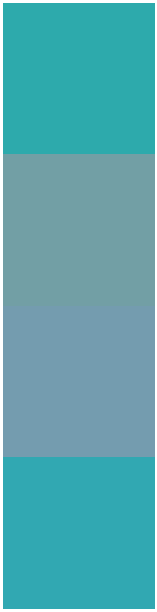
Original Color
45, 108, 172

Protanopia
153, 152, 161

Deuteranopia
156, 149, 177

Tritanopia
52, 113, 182

Trichromacy



Original Color
45, 108, 172

Protanomaly
114, 138, 165

Deuteranomaly
116, 140, 175

Tritanomaly
49, 111, 178

Monochromacy

Original Color
45, 108, 172

Achromatopsia
133, 133, 133

Achromatomaly
101, 124, 147

CSS Examples

Text

The CSS property to change the color of the text to RYB 45, 108, 172 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, 170, 172) looks like.

```
.text, #text, p{
    color:rgb(45, 170, 172)
}
```

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, 170, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 170, 172) }
```

Border

The CSS property to change the border of an element to RYB 45, 108, 172 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, 170, 172) }
```

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

```
.border{ border-color:rgb(45, 170, 172) }
```

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

Here you see how a box with a 4 pixel rgb(45, 170, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(45, 170, 172); -webkit-box-shadow:4px 4px 4px 4px rgb(45, 170, 172); box-shadow:4px 4px 4px 4px rgb(45, 170, 172) }
```

Background

The CSS property to change the background color of an element to RYB 45, 108, 172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{
background:rgb(45, 170, 172) }
```

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

```
.background{ background-color:rgb(45, 170,
172) }
```

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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