

Converting Colors

RGB(12, 77, 172)

Have a look what the booklet for
RGB(12, 77, 172) contains.

RGB(12, 77, 172)	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

RGB(12, 77, 172)

Conversions

Conversions Part 1

Format	Color
Hex	0C4DAC
RGB	12, 77, 172
RGB Percent	5%, 30%, 67%
CMY	0.9529, 0.6980, 0.3255
CMYK	0.93, 0.55, 0.00, 0.33
HSL	216°, 87%, 36%
HSV	216°, 93%, 67%
XYZ	10.2519, 8.3645, 40.1039
YIQ	68.3950, -69.2350, 15.7650

Conversions

Conversions Part 2

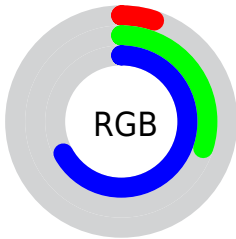
Format	Color
RYB	12, 58, 172
Decimal	806316
CIELab	34.73, 19.34, -55.90
CIElCh	35, 59.149, 289.087
Yxy	8.3645, 0.1746, 0.1424
Android (android.graphics.Color)	4278996396 (0xFF0C4DAC)
YUV	68.3950, 51.0773, -49.4584
Hunter-Lab	28.9214, 12.6612, -61.9696

Details

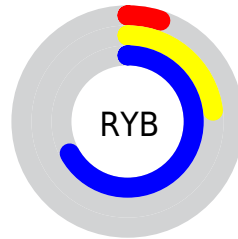
The RGB color **12, 77, 172** is a dark color, and the websafe version is hex **3366CC**. A complement of this color would be **172, 107, 12**, and the grayscale version is **68, 68, 68**.

A 20% lighter version of the original color is **93, 125, 228**, and **0, 34, 119** is the 20% darker color. If you saturate the color by 10%, you get **0, 70, 172**, and if you desaturate by 10%, it is **29, 87, 172**.

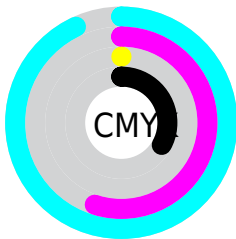
Distribution



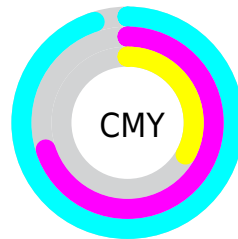
- Red (5%)
- Green (30%)
- Blue (67%)



- Red (5%)
- Yellow (23%)
- Blue (67%)



- Cyan (93%)
- Magenta (55%)
- Yellow (0%)
- Black (33%)



















- Cyan (95%)
- Magenta (70%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the RGB color 12, 77, 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 RGB color 12, 77, 172 by changing the saturation by 10% instead.

 12, 77, 172	 12, 77, 172
 255, 255, 255	 0, 55, 145
 93, 125, 228	 0, 34, 119
 123, 151, 255	 0, 15, 93
 153, 177, 255	 0, 8, 69
 183, 205, 255	 0, 3, 46
 212, 233, 255	 0, 1, 24
 242, 255, 255	 0, 0, 0

 12, 77, 172	 12, 77, 172
 0, 70, 172	 29, 87, 172

■ 46, 97, 172

■ 64, 108, 172

■ 81, 118, 172

■ 98, 128, 172

■ 115, 138, 172

■ 132, 148, 172

■ 150, 159, 172

■ 167, 169, 172

Harmonies

Analogous

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



0, 93, 175



12, 77, 172



119, 51, 144

Triad

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



12, 77, 172



146, 50, 5



0, 101, 62

Complementary

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



12, 77, 172



172, 107, 12

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.



0, 97, 6



12, 77, 172



115, 73, 0

Square

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



12, 77, 172



162, 18, 54



72, 88, 0



0, 102, 111

Rectangle

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



12, 77, 172



147, 30, 116



72, 88, 0



0, 100, 46

Sweetspot

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



12, 77, 172



162, 187, 224



12, 172, 105



74, 90, 112



240, 240, 240



112, 112, 112

Same Dimension

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



12, 77, 172



0, 91, 224



25, 12, 172



78, 82, 87



0, 61, 150



0, 9, 23

Inverse Universe

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



172, 12, 77



224, 0, 91



159, 172, 12



87, 78, 82



150, 0, 61



23, 0, 9

Previews

White Background



This preview shows how the RGB color 12, 77, 172 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 ✓ Pass

Black Background



This preview shows how the RGB color 12, 77, 172 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

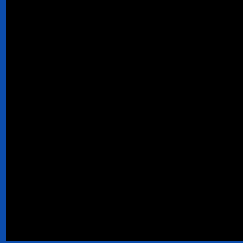
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

RGB 12, 77, 172 Background



This preview shows how black text looks on a background with the RGB color 12, 77, 172.



This preview shows how white text looks on a background with the RGB color 12, 77, 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


12, 77, 172

Protanopia

0, 78, 167

Deuteranopia

0, 84, 144



Tritanopia
0, 91, 96

Trichromacy



Original Color

12, 77, 172

Protanomaly

4, 78, 169

Deuteranomaly

4, 81, 154

Tritanomaly

4, 86, 124

Monochromacy



Original Color

12, 77, 172

Achromatopsia

68, 68, 68

Achromatomaly

48, 71, 106

CSS Examples

Text

The CSS property to change the color of the text to RGB 12, 77, 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(12, 77, 172)` looks like.

```
.text, #text, p{  
    color:rgb(12, 77, 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(12, 77, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 77, 172) }
```

Border

The CSS property to change the border of an element to RGB 12, 77, 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(12, 77, 172) }
```

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

```
.border{ border-color:rgb(12, 77, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 77, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 77, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 77, 172);  
box-shadow:4px 4px 4px 4px rgb(12, 77,  
172) }
```

Background

The CSS property to change the background color of an element to RGB 12, 77, 172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 77, 172) }
```

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

```
.background{ background-color: rgb(12, 77,  
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](#).

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