

# Converting Colors

CIELCh(12, 52.968, 15.763)

Have a look what the booklet for  
CIELCh(12, 52.968, 15.763) contains.

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**Color**

**CIELCh(16, 42.477, 27.817)**

# Conversions

## Conversions Part 1

Format	Color
Hex	58000C
RGB	88, 0, 12
RGB Percent	35%, 0%, 5%
CMY	0.6538, 1.0000, 0.9522
CMYK	0.00, 1.00, 0.86, 0.65
HSL	352°, 100%, 17%
HSV	352°, 100%, 35%
XYZ	4.1101, 2.0993, 0.5428
YIQ	27.6800, 48.5960, 22.3880

# Conversions

## Conversions Part 2

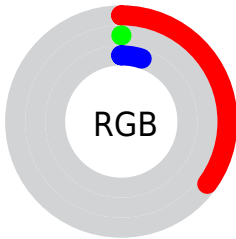
Format	Color
R <sub>Y</sub> B	88, 0, 12
Decimal	5767180
CIE Lab	16.00, 37.57, 19.82
CIE LCh	16, 42.477, 27.817
Yxy	2.0993, 0.6087, 0.3109
Android (android.graphics.Color)	4283957260 (0xFF5800C)
YUV	27.6800, -7.7302, 52.9006
Hunter-Lab	14.4890, 25.2799, 7.9210

# Details

The CIELCh color **16, 42.477, 27.817** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **33, 26.244, 178.765**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 42.182, 28.112**, and **3, 14.623, 17.825** is the 20% darker color. If you saturate the color by 10%, you get **16, 42.318, 28.084**, and if you desaturate by 10%, it is **17, 38.865, 25.912**.

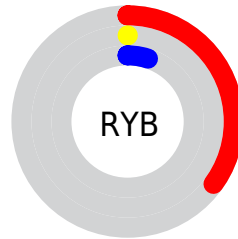
# Distribution



Red (35%)

Green (0%)

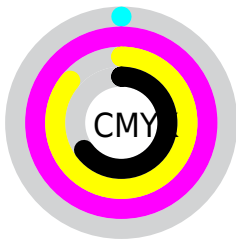
Blue (5%)



Red (35%)

Yellow (0%)

Blue (5%)

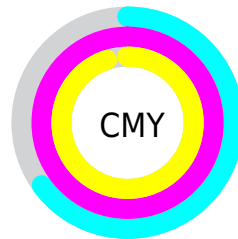


Cyan (0%)

Magenta (100%)

Yellow (86%)

Black (65%)



Cyan (65%)

Magenta (100%)

Yellow (95%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 16, 42.477, 27.817 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 CIELCh color 16, 42.477, 27.817 by changing the saturation by 10% instead.



 16, 42.477, 27.817

 16, 42.477, 27.817

 100, 42.477,  
27.817

 6, 42.477, 27.817

 36, 42.477, 27.817

 0, 42.477, 27.817

 46, 42.477, 27.817

 56, 42.477, 27.817

 66, 42.477, 27.817

 76, 42.477, 27.817

 86, 42.477, 27.817

 96, 42.477, 27.817

■ 16, 42.477, 27.817

■ 16, 42.477, 27.817

■ 16, 42.318, 28.084

■ 17, 38.865, 25.912

■ 18, 35.014, 22.065

■ 20, 30.771, 18.807

■ 22, 26.259, 16.170

■ 24, 21.617, 14.054

■ 27, 16.979, 12.349

■ 29, 12.447, 10.960

■ 32, 8.086, 9.806

■ 35, 3.933, 8.813

# Harmonies

# Complementary

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



16, 42.477, 27.817



33, 26.244, 178.765

# Rectangle

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



16, 42.477, 27.817



16, 42.477, 77.817



16, 42.477, 207.817



16, 42.477, 257.817

# Sweetspot

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



16, 42.318, 28.084



38, 15.489, 11.084



17, 53.904, 322.891



18, 10.720, 11.438



76, 0.009, 296.813



25, 0.004, 296.813



# Same Dimension

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



16, 42.318, 28.084



23, 52.386, 31.243



20, 38.984, 50.206



16, 2.161, 8.695



21, 49.569, 30.595



49, 91.667, 34.473





# Inverse Universe

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



16, 42.318, 28.084



23, 52.386, 31.243



23, 23.553, 260.623



16, 2.161, 8.695



21, 49.569, 30.595

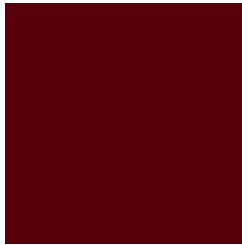


49, 91.667, 34.473



# Previews

## White Background



This preview shows how the CIELCh color 16, 42.477, 27.817 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



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

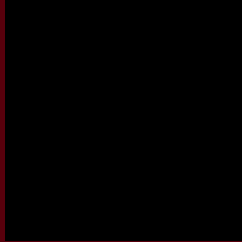
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 16, 42.477, 27.817**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 16, 42.477, 27.817.



This preview shows how white text looks on a background with the CIELCh color 16, 42.477, 27.817.

# 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

16, 42.239, 28.125

### Protanopia

18, 16.888, 98.426

### Deuteranopia

18, 25.888, 86.144



**Tritanopia**  
17, 42.969, 36.825



# Trichromacy



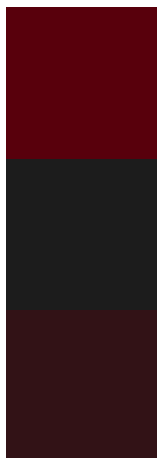
**Original Color**  
16, 42.239, 28.125

**Protanomaly**  
15, 21.702, 45.189

**Deuteranomaly**  
16, 28.368, 50.160

**Tritanomaly**  
16, 42.675, 33.871

# Monochromacy



**Original Color**  
16, 42.239, 28.125

**Achromatopsia**  
10, 0.003, 296.813

**Achromatomaly**  
10, 17.416, 16.616

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 16, 42.477, 27.817 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(88, 0, 12)` looks like.

```
.text, #text, p{  
    color:rgb(88, 0, 12)  
}
```

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(88, 0, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 0, 12) }
```

## Border

The CSS property to change the border of an element to CIELCh 16, 42.477, 27.817 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(88, 0, 12) }
```

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

```
.border{ border-color:rgb(88, 0, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 0, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 0, 12); -webkit-box-shadow:4px  
4px 4px 4px rgb(88, 0, 12); box-shadow:4px  
4px 4px 4px rgb(88, 0, 12) }
```

# Background

The CSS property to change the background color of an element to CIELCh 16, 42.477, 27.817 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 0, 12) }
```

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

```
.background{ background-color: rgb(88, 0,  
12) }
```

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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