

Converting Colors

CIELCh(16, 38.578, 10.565)

Have a look what the booklet for
CIELCh(16, 38.578, 10.565) contains.

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Color

CIELCh(16, 38.716, 11.320)

Conversions

Conversions Part 1

Format	Color
Hex	57001F
RGB	87, 0, 31
RGB Percent	34%, 0%, 12%
CMY	0.6602, 1.0000, 0.8795
CMYK	0.00, 1.00, 0.65, 0.66
HSL	339°, 100%, 17%
HSV	339°, 100%, 34%
XYZ	4.1379, 2.0993, 1.4654
YIQ	29.5470, 41.9010, 28.0850

Conversions

Conversions Part 2

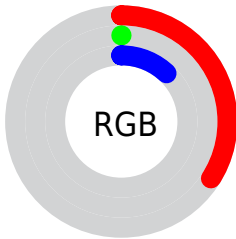
Format	Color
RYB	87, 0, 31
Decimal	5701663
CIELab	16.00, 37.96, 7.60
CIELCh	16, 38.716, 11.320
Yxy	2.0993, 0.5372, 0.2725
Android (android.graphics.Color)	4283891743 (0xFF57001F)
YUV	29.5470, 0.7163, 50.3863
Hunter-Lab	14.4890, 25.6220, 4.1459

Details

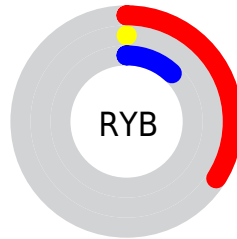
The CIELCh color **16, 38.716, 11.320** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **32, 33.343, 159.667**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 38.956, 11.669**, and **3, 15.364, 17.901** is the 20% darker color. If you saturate the color by 10%, you get **16, 38.615, 11.430**, and if you desaturate by 10%, it is **17, 35.986, 8.094**.

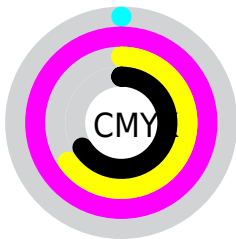
Distribution



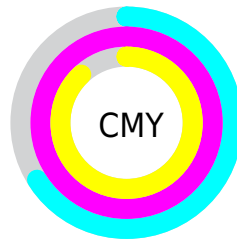
- Red (34%)
- Green (0%)
- Blue (12%)



- Red (34%)
- Yellow (0%)
- Blue (12%)



- Cyan (0%)
- Magenta (100%)
- Yellow (65%)
- Black (66%)



- Cyan (66%)
- Magenta (100%)
- Yellow (88%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 38.716, 11.320 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, 38.716, 11.320 by changing the saturation by 10% instead.

 16, 38.716, 11.320

 16, 38.716, 11.320

 100, 38.716,
11.320

 6, 38.716, 11.320

 0, 38.716, 11.320

 36, 38.716, 11.320

 46, 38.716, 11.320

 56, 38.716, 11.320

 66, 38.716, 11.320

 76, 38.716, 11.320

 86, 38.716, 11.320

 96, 38.716, 11.320

■ 16, 38.716, 11.320

■ 16, 38.716, 11.320

■ 16, 38.615, 11.430

■ 17, 35.986, 8.094

■ 18, 33.379, 4.699

■ 20, 30.090, 1.959

■ 22, 26.241,
359.751

■ 24, 22.014,
357.946

■ 26, 17.580,
356.445

■ 29, 13.080,
355.171

■ 31, 8.611, 354.066

■ 34, 4.240, 353.077

Harmonies

Complementary

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



16, 38.716, 11.320



32, 33.343, 159.667

Rectangle

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



16, 38.716, 11.320



16, 38.716, 61.320



16, 38.716, 191.320



16, 38.716, 241.320

Sweetspot

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



16, 38.615, 11.430



37, 16.204, 355.288



13, 54.960, 316.146



17, 10.961, 355.591



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



16, 38.615, 11.430



22, 46.456, 13.326



17, 41.760, 38.092



16, 2.369, 352.959



21, 44.915, 13.012



50, 80.797, 16.955

Inverse Universe

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



16, 38.615, 11.430



22, 46.456, 13.326



29, 20.033, 219.013



16, 2.369, 352.959



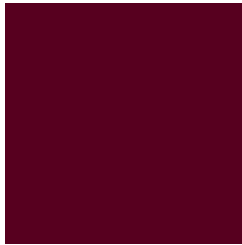
21, 44.915, 13.012



50, 80.797, 16.955

Previews

White Background



This preview shows how the CIE LCh color 16, 38.716, 11.320 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

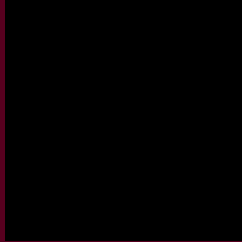
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 38.716, 11.320

Background



This preview shows how black text looks on a background with the CIELCh color 16, 38.716, 11.320.



This preview shows how white text looks on a background with the CIELCh color 16, 38.716, 11.320.

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, 38.716, 11.320

Protanopia

18, 0.844, 324.432

Deuteranopia

18, 12.284, 75.628



Tritanopia
17, 39.143, 32.897

Trichromacy



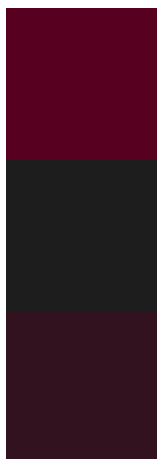
Original Color
16, 38.716, 11.320

Protanomaly
15, 17.418, 356.572

Deuteranomaly
16, 20.754, 23.730

Tritanomaly
16, 38.460, 26.585

Monochromacy



Original Color
16, 38.716, 11.320

Achromatopsia
11, 0.003, 296.813

Achromatomaly
11, 17.830, 357.923

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 38.716, 11.320 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(87, 0, 31)` looks like.

```
.text, #text, p{  
    color:rgb(87, 0, 31)  
}
```

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(87, 0, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 0, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 38.716, 11.320 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(87, 0, 31) }
```

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

```
.border{ border-color:rgb(87, 0, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 0, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 0, 31); -webkit-box-shadow:4px  
4px 4px 4px rgb(87, 0, 31); box-shadow:4px  
4px 4px 4px rgb(87, 0, 31) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 38.716, 11.320 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 0, 31) }
```

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

```
.background{ background-color: rgb(87, 0,  
31) }
```

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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