

Converting Colors

CIE LCh(16, 31.118, 2.193)

Have a look what the booklet for
CIELCh(16, 31.118, 2.193) contains.

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Color

CIELCh(16, 31.045, 2.469)

Conversions

Conversions Part 1

Format	Color
Hex	4E0F27
RGB	78, 15, 39
RGB Percent	31%, 6%, 15%
CMY	0.6946, 0.9416, 0.8474
CMYK	0.00, 0.81, 0.50, 0.69
HSL	337°, 68%, 18%
HSV	337°, 81%, 31%
XYZ	3.6668, 2.0993, 2.1236
YIQ	36.5730, 29.8440, 20.8200

Conversions

Conversions Part 2

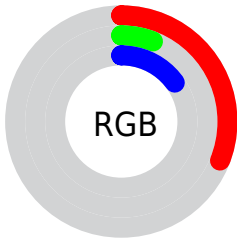
Format	Color
RYB	78, 15, 39
Decimal	5115687
CIELab	16.00, 31.02, 1.34
CIELCh	16, 31.045, 2.469
Yxy	2.0993, 0.4648, 0.2661
Android (android.graphics.Color)	4283305767 (0xFF4E0F27)
YUV	36.5730, 1.1965, 36.3315
Hunter-Lab	14.4890, 19.8176, 1.4525

Details

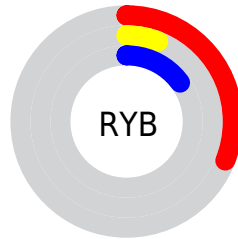
The CIELCh color **16, 31.045, 2.469** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **29, 27.447, 161.397**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 30.728, 2.228**, and **2, 10.025, 17.100** is the 20% darker color. If you saturate the color by 10%, you get **15, 33.431, 5.570**, and if you desaturate by 10%, it is **17, 28.074, 359.906**.

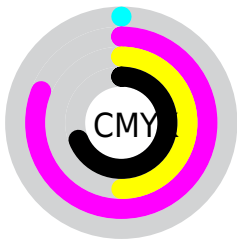
Distribution



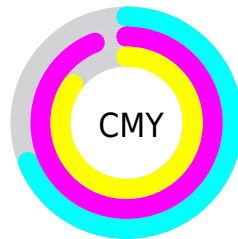
- Red (31%)
- Green (6%)
- Blue (15%)



- Red (31%)
- Yellow (6%)
- Blue (15%)



- Cyan (0%)
- Magenta (81%)
- Yellow (50%)
- Black (69%)



- Cyan (69%)
- Magenta (94%)
- Yellow (85%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 31.045, 2.469 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, 31.045, 2.469 by changing the saturation by 10% instead.

 16, 31.045, 2.469  16, 31.045, 2.469

 100, 31.045, 2.469  6, 31.045, 2.469


 36, 31.045, 2.469  0, 31.045, 2.469

 46, 31.045, 2.469


 56, 31.045, 2.469

 66, 31.045, 2.469

 76, 31.045, 2.469

 86, 31.045, 2.469

 96, 31.045, 2.469

 16, 31.045, 2.469  16, 31.045, 2.469

■ 15, 33.431, 5.570

■ 17, 28.074,
359.906

■ 14, 35.770, 8.180

■ 19, 24.574,
357.828

■ 21, 20.710,
356.119

■ 23, 16.640,
354.686

■ 26, 12.491,
353.462

■ 28, 8.355, 352.393

■ 30, 4.295, 351.433

■ 33, 0.346, 349.993

■ 35, 3.471, 169.965

Harmonies

Complementary

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



16, 31.045, 2.469



29, 27.447, 161.397

Rectangle

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



16, 31.045, 2.469



16, 31.045, 52.469



16, 31.045, 182.469



16, 31.045, 232.469

Sweetspot

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



16, 31.043, 2.470



36, 12.058, 352.806



14, 43.535, 315.776



16, 8.197, 353.013



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



16, 31.043, 2.470



20, 42.402, 9.173



17, 31.861, 36.173



14, 2.162, 351.224



20, 43.180, 10.233



49, 78.789, 14.311

Inverse Universe

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



16, 31.043, 2.470



20, 42.402, 9.173



27, 17.393, 213.150



14, 2.162, 351.224



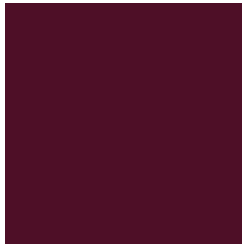
20, 43.180, 10.233



49, 78.789, 14.311

Previews

White Background



This preview shows how the CIELCh color 16, 31.045, 2.469 looks on a white background.

Color Contrast Check

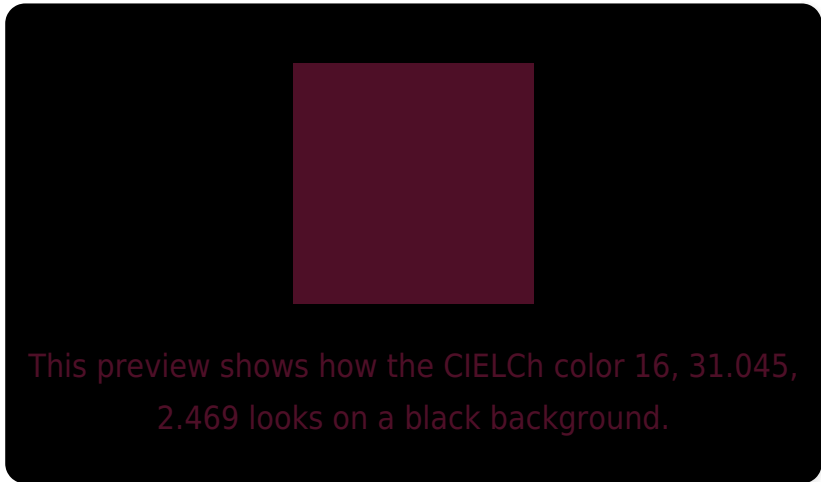
Large Text (above 18pt) WCAG AA ✓ Pass

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

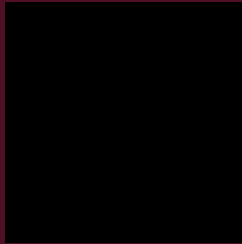
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 31.045, 2.469

Background



This preview shows how black text looks on a background with the CIELCh color 16, 31.045, 2.469.



This preview shows how white text looks on a background with the CIELCh color 16, 31.045, 2.469.

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, 31.045, 2.469

Protanopia

17, 8.386, 286.463

Deuteranopia

17, 4.942, 54.084



Tritanopia
16, 30.476, 28.275

Trichromacy



Original Color
16, 31.045, 2.469

Protanomaly
16, 14.736, 334.156

Deuteranomaly
16, 14.608, 7.290

Tritanomaly
16, 29.767, 17.991

Monochromacy



Original Color
16, 31.045, 2.469

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 12.941, 354.133

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 31.045, 2.469 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(78, 15, 39)` looks like.

```
.text, #text, p{  
    color:rgb(78, 15, 39)  
}
```

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(78, 15, 39) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 15, 39) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 31.045, 2.469 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(78, 15, 39) }
```

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

```
.border{ border-color:rgb(78, 15, 39) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 15, 39)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 15, 39); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 15, 39);  
box-shadow:4px 4px 4px 4px rgb(78, 15, 39)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 31.045, 2.469 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 15, 39) }
```

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

```
.background{ background-color: rgb(78, 15,  
39) }
```

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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