

Converting Colors

CIELCh(16, 31.605, 29.816)

Have a look what the booklet for
CIELCh(16, 31.605, 29.816) contains.

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Color

CIELCh(16, 31.292, 29.685)

Conversions

Conversions Part 1

Format	Color
Hex	4D1313
RGB	77, 19, 19
RGB Percent	30%, 7%, 7%
CMY	0.6976, 0.9251, 0.9251
CMYK	0.00, 0.75, 0.75, 0.70
HSL	0°, 60%, 19%
HSV	0°, 75%, 30%
XYZ	3.4229, 2.0993, 0.8452
YIQ	36.3420, 34.5680, 12.2960

Conversions

Conversions Part 2

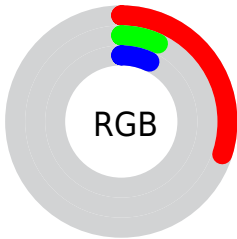
Format	Color
R_{YB}	77, 19, 19
Decimal	5051155
CIE _{Lab}	16.00, 27.19, 15.50
CIE _{LCh}	16, 31.292, 29.685
Yxy	2.0993, 0.5376, 0.3297
Android (android.graphics.Color)	4283241235 (0xFF4D1313)
YUV	36.3420, -8.5496, 35.6571
Hunter-Lab	14.4890, 16.8138, 6.6836

Details

The CIELCh color **16, 31.292, 29.685** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **29, 18.707, 196.740**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 31.084, 30.032**, and **1, 6.850, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **15, 34.997, 30.957**, and if you desaturate by 10%, it is **18, 26.750, 27.216**.

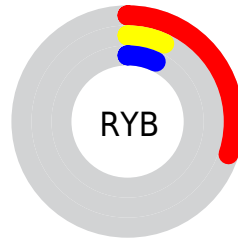
Distribution



Red (30%)

Green (7%)

Blue (7%)



Red (30%)

Yellow (7%)

Blue (7%)

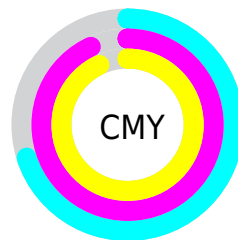


Cyan (0%)

Magenta (75%)

Yellow (75%)

Black (70%)



Cyan (70%)

Magenta (93%)

Yellow (93%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 31.292, 29.685 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, 31.292, 29.685 by changing the saturation by 10% instead.

 16, 31.292, 29.685

 16, 31.292, 29.685

 100, 31.292,
29.685

 6, 31.292, 29.685

 36, 31.292, 29.685

 0, 31.292, 29.685

 46, 31.292, 29.685

 56, 31.292, 29.685

 66, 31.292, 29.685

 76, 31.292, 29.685

 86, 31.292, 29.685

 96, 31.292, 29.685

■ 16, 31.292, 29.685

■ 16, 31.292, 29.685

■ 15, 34.997, 30.957

■ 18, 26.750, 27.216

■ 14, 37.998, 31.371

■ 20, 22.149, 25.117

■ 13, 39.477, 31.412

■ 22, 17.644, 23.456

■ 24, 13.317, 22.151

■ 26, 9.219, 21.122

■ 29, 5.373, 20.297

■ 31, 1.782, 19.556

■ 34, 1.564, 199.382

■ 37, 4.681, 198.853

Harmonies

Complementary

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



16, 31.292, 29.685



29, 18.707, 196.740

Rectangle

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



16, 31.292, 29.685



16, 31.292, 79.685



16, 31.292, 209.685



16, 31.292, 259.685

Sweetspot

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



16, 31.291, 29.688



35, 10.319, 20.994



18, 41.317, 327.709



16, 7.255, 21.188



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, 31.291, 29.688



20, 45.816, 34.389



23, 25.521, 66.770



14, 1.909, 19.820



19, 50.499, 35.967



48, 96.564, 40.002

Inverse Universe

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



29, 18.707, 196.740



38, 24.330, 196.509



19, 21.046, 270.753



15, 1.818, 199.098



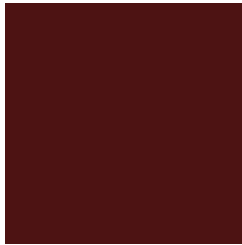
39, 25.564, 196.423



83, 46.261, 196.425

Previews

White Background



This preview shows how the CIELCh color 16, 31.292, 29.685 looks on a white background.

Color Contrast Check

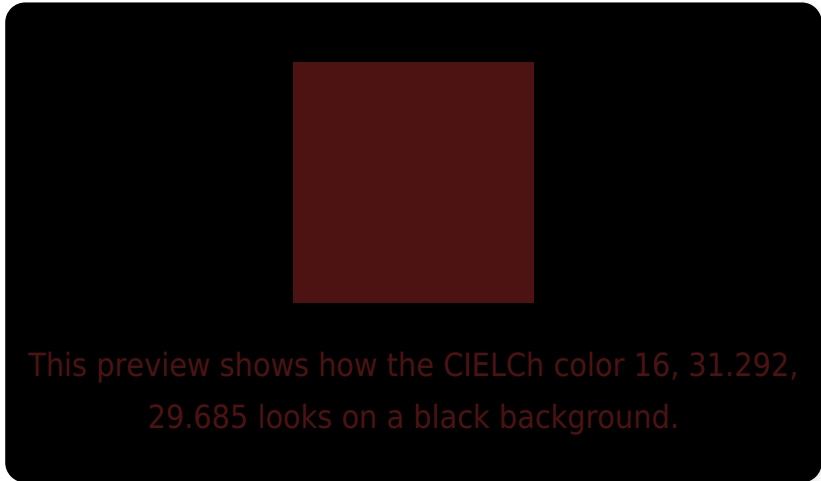
Large Text (above 18pt) WCAG AA ✓ Pass

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, 31.292, 29.685

Background



This preview shows how black text looks on a background with the CIELCh color 16, 31.292, 29.685.

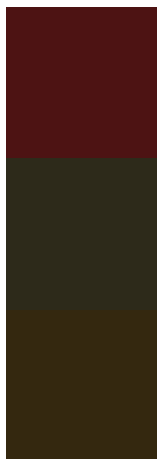


This preview shows how white text looks on a background with the CIELCh color 16, 31.292, 29.685.

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, 31.292, 29.685

Protanopia

17, 11.106, 98.949

Deuteranopia

17, 18.191, 83.754



Tritanopia
16, 31.043, 28.622

Trichromacy



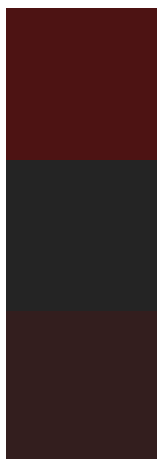
Original Color
16, 31.292, 29.685

Protanomaly
16, 15.295, 51.319

Deuteranomaly
16, 20.528, 53.337

Tritanomaly
16, 31.043, 28.622

Monochromacy



Original Color
16, 31.292, 29.685

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 11.119, 22.484

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 31.292, 29.685 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(77, 19, 19)` looks like.

```
.text, #text, p{  
    color:rgb(77, 19, 19)  
}
```

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(77, 19, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 19, 19) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 31.292, 29.685 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(77, 19, 19) }
```

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

```
.border{ border-color:rgb(77, 19, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 19, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 19, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 19, 19);  
box-shadow:4px 4px 4px 4px rgb(77, 19, 19)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 31.292, 29.685 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 19, 19) }
```

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

```
.background{ background-color: rgb(77, 19,  
19) }
```

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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