

Converting Colors

CIELCh(8, 81.702, 39.994)

Have a look what the booklet for
CIELCh(8, 81.702, 39.994) contains.

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Color

CIELCh(16, 44.820, 33.969)

Conversions

Conversions Part 1

Format	Color
Hex	590000
RGB	89, 0, 0
RGB Percent	35%, 0%, 0%
CMY	0.6523, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.65
HSL	0°, 100%, 17%
HSV	0°, 100%, 35%
XYZ	4.0823, 2.0993, 0.1778
YIQ	26.6110, 53.0440, 18.8680

Conversions

Conversions Part 2

Format	Color
RYB	89, 0, 0
Decimal	5832704
CIELab	16.00, 37.17, 25.04
CIElCh	16, 44.820, 33.969
Yxy	2.0993, 0.6419, 0.3301
Android (android.graphics.Color)	4284022784 (0xFF590000)
YUV	26.6110, -13.1192, 54.7152
Hunter-Lab	14.4890, 24.9367, 9.4147

Details

The CIELCh color **16, 44.820, 33.969** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **34, 23.194, 196.386**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 44.632, 33.924**, and **3, 14.623, 17.825** is the 20% darker color. If you saturate the color by 10%, you get **16, 44.673, 33.909**, and if you desaturate by 10%, it is **17, 41.357, 33.119**.

Distribution



Red (35%)

Green (0%)

Blue (0%)



Red (35%)

Yellow (0%)

Blue (0%)



Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (65%)



Cyan (65%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 44.820, 33.969 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, 44.820, 33.969 by changing the saturation by 10% instead.

 16, 44.820, 33.969

 16, 44.820, 33.969

 100, 44.820,
33.969

 6, 44.820, 33.969

 36, 44.820, 33.969

 0, 44.820, 33.969

 46, 44.820, 33.969

 56, 44.820, 33.969

 66, 44.820, 33.969

 76, 44.820, 33.969

 86, 44.820, 33.969

 96, 44.820, 33.969

■ 16, 44.820, 33.969

■ 16, 44.820, 33.969

■ 16, 44.673, 33.909

■ 17, 41.357, 33.119

■ 18, 37.552, 31.571

■ 20, 32.569, 28.751

■ 22, 27.401, 26.303

■ 24, 22.266, 24.353

■ 27, 17.284, 22.823

■ 29, 12.537, 21.627

■ 32, 8.067, 20.683

■ 35, 3.890, 19.912

Harmonies

Complementary

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



16, 44.820, 33.969



34, 23.194, 196.386

Rectangle

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



16, 44.820, 33.969



16, 44.820, 83.969



16, 44.820, 213.969



16, 44.820, 263.969

Sweetspot

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



16, 44.673, 33.909



38, 15.558, 21.729



19, 53.486, 328.233



18, 10.797, 22.030



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, 44.673, 33.909



22, 55.896, 37.351



23, 37.571, 62.560



16, 2.127, 19.820



21, 52.682, 36.572



49, 98.182, 40.000

Inverse Universe

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



34, 23.194, 196.386



43, 27.797, 196.386



18, 31.106, 280.356



17, 2.022, 199.060



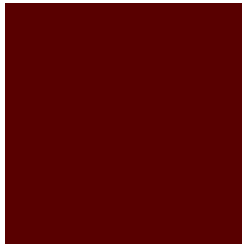
41, 26.468, 196.386



85, 47.051, 196.386

Previews

White Background



This preview shows how the CIELCh color 16, 44.820, 33.969 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, 44.820, 33.969

Background



This preview shows how black text looks on a background with the CIELCh color 16, 44.820, 33.969.

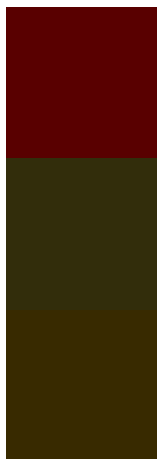


This preview shows how white text looks on a background with the CIELCh color 16, 44.820, 33.969.

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, 44.820, 33.969

Protanopia

18, 21.781, 97.406

Deuteranopia

18, 25.888, 86.144



Tritanopia
17, 42.969, 36.825

Trichromacy



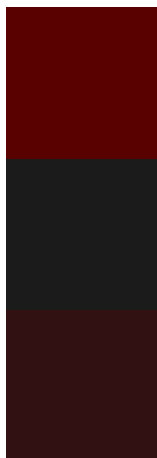
Original Color
16, 44.820, 33.969

Protanomaly
15, 25.212, 53.089

Deuteranomaly
16, 29.465, 52.428

Tritanomaly
16, 43.470, 35.688

Monochromacy



Original Color
16, 44.820, 33.969

Achromatopsia
10, 0.003, 296.813

Achromatomaly
10, 17.882, 24.419

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 44.820, 33.969 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(89, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(89, 0, 0)  
}
```

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(89, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 44.820, 33.969 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(89, 0, 0) }
```

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

```
.border{ border-color:rgb(89, 0, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(89, 0, 0); box-shadow:4px  
4px 4px 4px rgb(89, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 44.820, 33.969 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 0, 0) }
```

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

```
.background{ background-color: rgb(89, 0,  
0) }
```

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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