

Converting Colors

CIELCh(4, 80.173, 12.312)

Have a look what the booklet for
CIELCh(4, 80.173, 12.312) contains.

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Color

CIELCh(16, 44.685, 32.830)

Conversions

Conversions Part 1

Format	Color
Hex	590002
RGB	89, 0, 2
RGB Percent	35%, 0%, 1%
CMY	0.6513, 1.0000, 0.9937
CMYK	0.00, 1.00, 0.98, 0.65
HSL	359°, 100%, 17%
HSV	359°, 100%, 35%
XYZ	4.1087, 2.0993, 0.2349
YIQ	26.8390, 52.4020, 19.4900

Conversions

Conversions Part 2

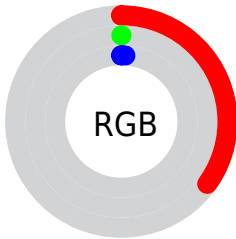
Format	Color
R_{YB}	89, 0, 2
Decimal	5832706
CIE Lab	16.00, 37.55, 24.23
CIE LCh	16, 44.685, 32.830
Yxy	2.0993, 0.6377, 0.3258
Android (android.graphics.Color)	4284022786 (0xFF590002)
YUV	26.8390, -12.2456, 54.5152
Hunter-Lab	14.4890, 25.2622, 9.1809

Details

The CIELCh color **16, 44.685, 32.830** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **34, 23.534, 193.834**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 44.358, 33.244**, and **3, 14.623, 17.825** is the 20% darker color. If you saturate the color by 10%, you get **16, 44.472, 33.241**, and if you desaturate by 10%, it is **17, 41.189, 32.451**.

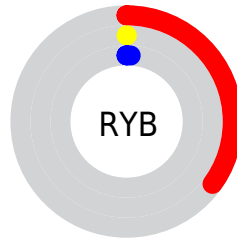
Distribution



Red (35%)

Green (0%)

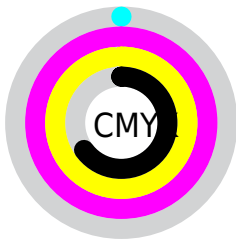
Blue (1%)



Red (35%)

Yellow (0%)

Blue (1%)

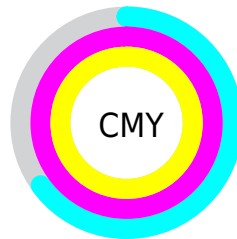


Cyan (0%)

Magenta (100%)

Yellow (98%)

Black (65%)



Cyan (65%)

Magenta (100%)

Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 44.685, 32.830 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, 44.685, 32.830 by changing the saturation by 10% instead.

 16, 44.685, 32.830

 16, 44.685, 32.830

 100, 44.685,
32.830

 6, 44.685, 32.830

 36, 44.685, 32.830

 0, 44.685, 32.830

 46, 44.685, 32.830

 56, 44.685, 32.830

 66, 44.685, 32.830

 76, 44.685, 32.830

 86, 44.685, 32.830

 96, 44.685, 32.830

■ 16, 44.685, 32.830

■ 16, 44.685, 32.830

■ 16, 44.472, 33.241

■ 17, 41.189, 32.451

■ 18, 37.295, 30.521

■ 20, 32.364, 27.533

■ 22, 27.275, 25.036

■ 24, 22.199, 23.044

■ 27, 17.257, 21.475

■ 29, 12.534, 20.239

■ 32, 8.075, 19.256

■ 35, 3.898, 18.444

Harmonies

Complementary

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



16, 44.685, 32.830



34, 23.534, 193.834

Rectangle

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



16, 44.685, 32.830



16, 44.685, 82.830



16, 44.685, 212.830



16, 44.685, 262.830

Sweetspot

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



16, 44.472, 33.241



38, 15.516, 20.345



19, 53.667, 327.013



18, 10.765, 20.655



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, 44.472, 33.241



22, 55.431, 36.641



23, 37.884, 59.622



16, 2.127, 18.347



21, 52.262, 35.863



49, 97.437, 39.446

Inverse Universe

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



16, 44.472, 33.241



22, 55.431, 36.641



19, 29.261, 276.748



16, 2.127, 18.347



21, 52.262, 35.863



49, 97.437, 39.446

Previews

White Background



This preview shows how the CIE LCh color 16, 44.685, 32.830 looks on a white background.

Color Contrast Check

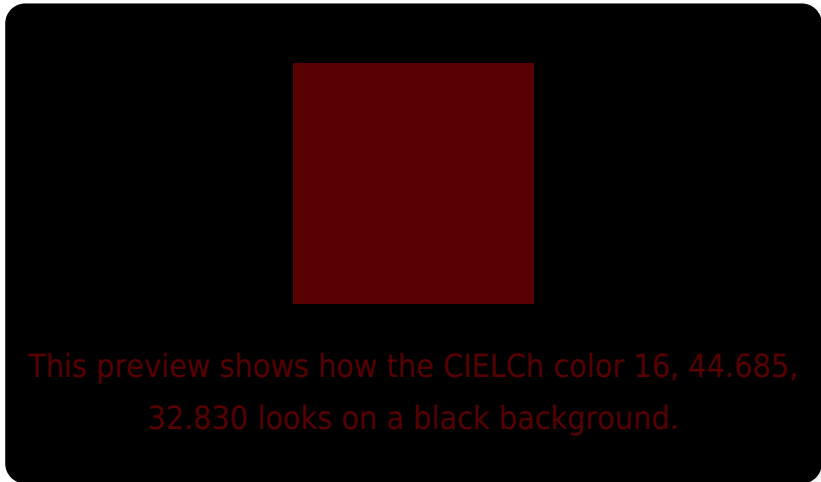
Large Text (above 18pt) WCAG AA ✓ Pass

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

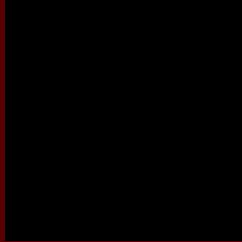
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 44.685, 32.830

Background



This preview shows how black text looks on a background with the CIELCh color 16, 44.685, 32.830.

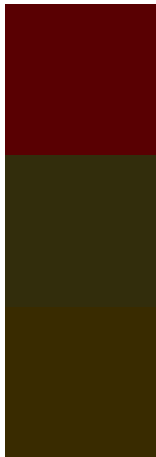


This preview shows how white text looks on a background with the CIELCh color 16, 44.685, 32.830.

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, 44.435, 33.083

Protanopia

18, 21.345, 97.345

Deuteranopia

18, 26.447, 86.473



Tritanopia
17, 42.969, 36.825

Trichromacy



Original Color
16, 44.435, 33.083

Protanomaly
15, 24.933, 52.444

Deuteranomaly
16, 29.700, 51.483

Tritanomaly
16, 43.267, 35.240

Monochromacy



Original Color
16, 44.435, 33.083

Achromatopsia
10, 0.003, 296.813

Achromatomaly
10, 18.299, 22.956

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 44.685, 32.830 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, 2)` looks like.

```
.text, #text, p{  
    color:rgb(89, 0, 2)  
}
```

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, 2) colored shadow looks like.

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

Border

The CSS property to change the border of an element to CIELCh 16, 44.685, 32.830 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, 2) }
```

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

```
.border{ border-color:rgb(89, 0, 2) }
```

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, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 0, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(89, 0, 2); box-shadow:4px  
4px 4px 4px rgb(89, 0, 2) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 44.685, 32.830 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, 2) }
```

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

```
.background{ background-color: rgb(89, 0,  
2) }
```

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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