

Converting Colors

CIELCh(31, 57.034, 48.883)

Have a look what the booklet for
CIELCh(31, 57.034, 48.883) contains.

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Color

CIELCh(31, 56.997, 48.958)

Conversions

Conversions Part 1

Format	Color
Hex	852A00
RGB	133, 42, 0
RGB Percent	52%, 16%, 0%
CMY	0.4782, 0.8351, 0.9998
CMYK	0.00, 0.68, 1.00, 0.48
HSL	19°, 100%, 26%
HSV	19°, 100%, 52%
XYZ	10.5129, 6.6515, 0.7313
YIQ	64.4210, 67.7180, 6.2300

Conversions

Conversions Part 2

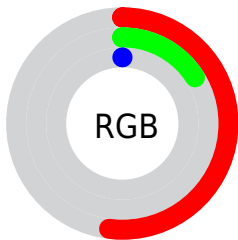
Format	Color
RYB	133, 61, 0
Decimal	8727040
CIELab	31.00, 37.42, 42.99
CIElCh	31, 56.997, 48.958
Yxy	6.6515, 0.5875, 0.3717
Android (android.graphics.Color)	4286917120 (0xFF852A00)
YUV	64.4210, -31.7596, 60.1438
Hunter-Lab	25.7905, 27.6280, 16.3723

Details

The CIELCh color **31, 56.997, 48.958** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **36, 30.562, 257.467**, and the grayscale version is **27, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 56.923, 48.651**, and **13, 38.520, 30.845** is the 20% darker color. If you saturate the color by 10%, you get **31, 57.018, 48.960**, and if you desaturate by 10%, it is **33, 51.244, 49.425**.

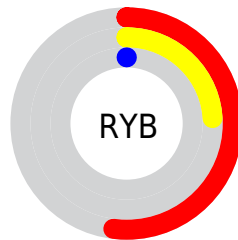
Distribution



Red (52%)

Green (16%)

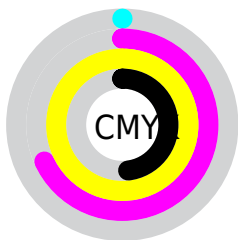
Blue (0%)



Red (52%)

Yellow (24%)

Blue (0%)

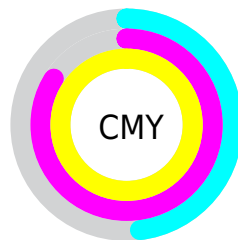


Cyan (0%)

Magenta (68%)

Yellow (100%)

Black (48%)



Cyan (48%)

Magenta (84%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 56.997, 48.958 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 31, 56.997, 48.958 by changing the saturation by 10% instead.

31, 56.997, 48.958

31, 56.997, 48.958

100, 56.997,
48.958

21, 56.997, 48.958

51, 56.997, 48.958

11, 56.997, 48.958

61, 56.997, 48.958

1, 56.997, 48.958

71, 56.997, 48.958

0, 56.997, 48.958

81, 56.997, 48.958

91, 56.997, 48.958

31, 56.997, 48.958

31, 56.997, 48.958

31, 57.018, 48.960

33, 51.244, 49.425

■ 35, 44.998, 49.892

■ 37, 38.394, 50.129

■ 39, 31.875, 50.359

■ 42, 25.640, 50.667

■ 44, 19.770, 51.075

■ 47, 14.285, 51.575

■ 50, 9.175, 52.147

■ 53, 4.417, 52.752

Harmonies

Complementary

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



31, 56.997, 48.958



36, 30.562, 257.467

Rectangle

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



31, 56.997, 48.958



31, 56.997, 98.958



31, 56.997, 228.958



31, 56.997, 278.958

Sweetspot

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



31, 56.995, 48.960



60, 17.805, 51.536



29, 57.235, 344.292



30, 12.256, 51.350



86, 0.010, 296.813



37, 0.005, 296.813

Same Dimension

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



31, 56.995, 48.960



41, 70.086, 48.370



46, 52.834, 88.340



26, 2.486, 52.800



30, 55.953, 48.965



0, 0.579, 53.515

Inverse Universe

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



36, 30.562, 257.467



47, 37.543, 258.749



18, 70.459, 301.697



27, 2.377, 234.329



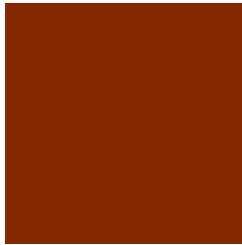
36, 30.035, 257.359



0, 0.579, 233.534

Previews

White Background



This preview shows how the CIELCh color 31, 56.997, 48.958 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



This preview shows how the CIELCh color 31, 56.997, 48.958 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

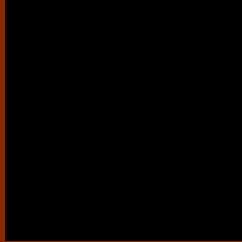
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 56.997, 48.958

Background



This preview shows how black text looks on a background with the CIELCh color 31, 56.997, 48.958.



This preview shows how white text looks on a background with the CIELCh color 31, 56.997, 48.958.

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

31, 56.997, 48.958

Protanopia

32, 35.265, 96.071

Deuteranopia

32, 40.694, 85.306



Tritanopia
31, 46.092, 28.577

Trichromacy



Original Color
31, 56.997, 48.958

Protanomaly
30, 38.756, 71.025

Deuteranomaly
30, 44.094, 67.215

Tritanomaly
31, 50.158, 38.369

Monochromacy



Original Color
31, 56.997, 48.958

Achromatopsia
27, 0.004, 296.813

Achromatomaly
27, 20.011, 50.287

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 56.997, 48.958 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(133, 42, 0)` looks like.

```
.text, #text, p{  
    color:rgb(133, 42, 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(133, 42, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 42, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 56.997, 48.958 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(133, 42, 0) }
```

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

```
.border{ border-color:rgb(133, 42, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 42, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 42, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 42, 0);  
box-shadow:4px 4px 4px 4px rgb(133, 42, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 56.997, 48.958 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 42, 0) }
```

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

```
.background{ background-color: rgb(133, 42,  
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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