

Converting Colors

CIELCh(49, 77.689, 50.149)

Have a look what the booklet for
CIELCh(49, 77.689, 50.149) contains.

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Color

CIELCh(49, 77.608, 50.258)

Conversions

Conversions Part 1

Format	Color
Hex	CC4900
RGB	204, 73, 0
RGB Percent	80%, 29%, 0%
CMY	0.2001, 0.7138, 1.0000
CMYK	0.00, 0.64, 1.00, 0.20
HSL	21°, 100%, 40%
HSV	21°, 100%, 80%
XYZ	27.2734, 17.5941, 1.9575
YIQ	103.8470, 101.5090, 5.0690

Conversions

Conversions Part 2

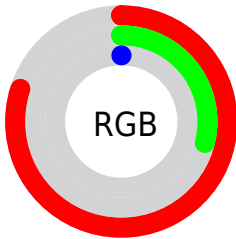
Format	Color
RYB	204, 114, 0
Decimal	13388032
CIELab	49.00, 49.62, 59.68
CIELCh	49, 77.608, 50.258
Yxy	17.5941, 0.5825, 0.3757
Android (android.graphics.Color)	4291578112 (0xFFCC4900)
YUV	103.8470, -51.1966, 87.8342
Hunter-Lab	41.9453, 42.6590, 26.5947

Details

The CIELCh color **49, 77.608, 50.258** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **52, 46.032, 266.473**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **67, 72.264, 52.012**, and **29, 65.441, 40.286** is the 20% darker color. If you saturate the color by 10%, you get **49, 77.599, 50.256**, and if you desaturate by 10%, it is **51, 71.109, 51.883**.

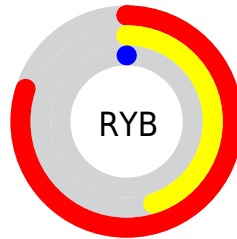
Distribution



Red (80%)

Green (29%)

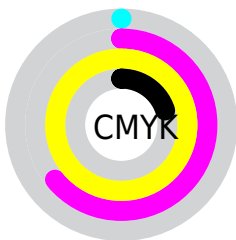
Blue (0%)



Red (80%)

Yellow (45%)

Blue (0%)

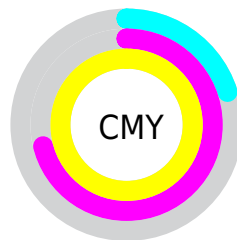


Cyan (0%)

Magenta (64%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (71%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 77.608, 50.258 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 49, 77.608, 50.258 by changing the saturation by 10% instead.

■ 49, 77.608, 50.258

■ 49, 77.608, 50.258

■ 100, 77.608,
50.258

■ 39, 77.608, 50.258

■ 69, 77.608, 50.258

■ 29, 77.608, 50.258

■ 79, 77.608, 50.258

■ 19, 77.608, 50.258

■ 89, 77.608, 50.258

■ 9, 77.608, 50.258

■ 99, 77.608, 50.258

■ 0, 77.608, 50.258

■ 49, 77.608, 50.258

■ 49, 77.608, 50.258

■ 49, 77.599, 50.256

■ 51, 71.109, 51.883

■ 54, 62.972, 52.943

57, 53.981, 53.612

60, 44.938, 54.183

63, 36.217, 54.782

67, 27.969, 55.448

71, 20.242, 56.182

74, 13.026, 56.972

78, 6.292, 57.780

Harmonies

Complementary

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



49, 77.608, 50.258



52, 46.032, 266.473

Rectangle

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



49, 77.608, 50.258



49, 77.608, 100.258



49, 77.608, 230.258



49, 77.608, 280.258

Sweetspot

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



49, 77.599, 50.256



86, 24.297, 56.153



45, 75.625, 348.923



44, 16.831, 55.832



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



49, 77.599, 50.256



61, 92.250, 49.776



71, 74.022, 92.000



41, 3.562, 57.827



40, 66.163, 50.810



7, 14.882, 42.130

Inverse Universe

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



52, 46.032, 266.473



65, 54.963, 267.206



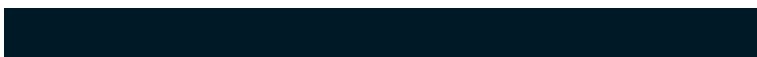
28, 104.345, 304.022



41, 3.412, 239.731



43, 39.060, 265.638



7, 12.723, 254.019

Previews

White Background



This preview shows how the CIELCh color 49, 77.608, 50.258 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 × Fail

Black Background



This preview shows how the CIELCh color 49, 77.608, 50.258 looks on a black 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 × Fail

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

CIELCh 49, 77.608, 50.258

Background



This preview shows how black text looks on a background with the CIELCh color 49, 77.608, 50.258.



This preview shows how white text looks on a background with the CIELCh color 49, 77.608, 50.258.

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

49, 77.608, 50.258

Protanopia

49, 50.236, 95.130

Deuteranopia

49, 55.957, 83.807



Tritanopia
49, 61.105, 27.464

Trichromacy



Original Color
49, 77.608, 50.258

Protanomaly
48, 54.963, 72.378

Deuteranomaly
48, 60.798, 67.588

Tritanomaly
49, 67.485, 39.378

Monochromacy



Original Color
49, 77.608, 50.258

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 28.266, 55.403

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 77.608, 50.258 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(204, 73, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 73, 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(204, 73, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 73, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 77.608, 50.258 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(204, 73, 0) }
```

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

```
.border{ border-color:rgb(204, 73, 0) }
```

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

Here you see how a box with a 4 pixel rgb(204, 73, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 73, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 73, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 73, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 77.608, 50.258 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 73, 0) }
```

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

```
.background{ background-color: rgb(204, 73,  
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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