

Converting Colors

CIELCh(49, 98.402, 118.710)

Have a look what the booklet for
CIELCh(49, 98.402, 118.710)
contains.

CIELCh(49, 68.919, 129.880)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(49, 68.919, 129.880)

Conversions

Conversions Part 1

Format	Color
Hex	388500
RGB	56, 133, 0
RGB Percent	22%, 52%, 0%
CMY	0.7811, 0.4786, 1.0000
CMYK	0.58, 0.00, 1.00, 0.48
HSL	95°, 100%, 26%
HSV	95°, 100%, 52%
XYZ	9.9924, 17.5941, 2.8211
YIQ	94.8150, -3.1990, -57.6870

Conversions

Conversions Part 2

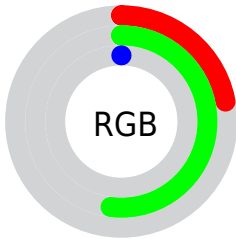
Format	Color
RYB	0, 133, 77
Decimal	3704064
CIELab	49.00, -44.19, 52.89
CIELCh	49, 68.919, 129.880
Yxy	17.5941, 0.3286, 0.5786
Android (android.graphics.Color)	4281894144 (0xFF388500)
YUV	94.8150, -46.7438, -34.0408
Hunter-Lab	41.9453, -30.8812, 25.3740

Details

The CIELCh color **49, 68.919, 129.880** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **21, 75.446, 314.176**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **69, 68.723, 129.841**, and **29, 52.535, 136.016** is the 20% darker color. If you saturate the color by 10%, you get **49, 68.634, 130.023**, and if you desaturate by 10%, it is **49, 65.215, 129.405**.

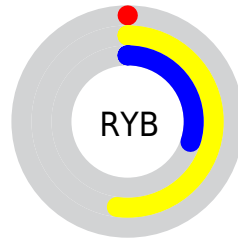
Distribution



Red (22%)

Green (52%)

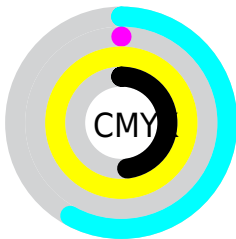
Blue (0%)



Red (0%)

Yellow (52%)

Blue (30%)

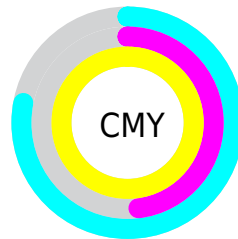


Cyan (58%)

Magenta (0%)

Yellow (100%)

Black (48%)



Cyan (78%)

Magenta (48%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 68.919, 129.880 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, 68.919, 129.880 by changing the saturation by 10% instead.


 49, 68.919,
129.880


 49, 68.919,
129.880

 100, 68.919,
129.880


 39, 68.919,
129.880

 69, 68.919,
129.880


 29, 68.919,
129.880

 79, 68.919,
129.880

 19, 68.919,
129.880

 89, 68.919,
129.880

 9, 68.919, 129.880

 99, 68.919,
129.880

 0, 68.919, 129.880

 49, 68.919,

 49, 68.919,

129.880

129.880

■ 49, 68.634,
130.023

■ 49, 65.215,
129.405

■ 50, 60.745,
129.005

■ 50, 54.965,
128.977

■ 51, 48.202,
129.204

■ 51, 40.767,
129.582

■ 52, 32.903,
130.033

■ 53, 24.786,
130.508

■ 54, 16.540,
130.977

Harmonies

Complementary

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



49, 68.919, 129.880



21, 75.446, 314.176

Rectangle

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



49, 68.919, 129.880



49, 68.919, 179.880



49, 68.919, 309.880



49, 68.919, 359.880

Sweetspot

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



49, 68.634, 130.023



67, 30.786, 130.476



38, 51.261, 67.400



35, 20.889, 130.305



86, 0.010, 296.813



37, 0.005, 296.813

Same Dimension

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



49, 68.634, 130.023



63, 83.686, 130.378



48, 72.442, 136.809



28, 4.644, 131.464



48, 67.522, 129.989



1, 1.112, 131.821

Inverse Universe

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



21, 75.446, 314.176



29, 91.820, 313.927



30, 67.719, 330.994



26, 4.694, 312.177



21, 74.236, 314.200



0, 1.112, 311.819

Previews

White Background



This preview shows how the CIELCh color 49, 68.919, 129.880 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 CIE LCh color 49, 68.919, 129.880 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, 68.919, 129.880

Background



This preview shows how black text looks on a background with the CIELCh color 49, 68.919, 129.880.



This preview shows how white text looks on a background with the CIELCh color 49, 68.919, 129.880.

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, 68.625, 129.988

Protanopia
49, 54.701, 95.139

Deuteranopia
49, 48.265, 82.441



Tritanopia
49, 16.859, 218.430

Trichromacy



Original Color
49, 68.625, 129.988

Protanomaly
48, 56.941, 111.453

Deuteranomaly
48, 50.946, 106.052

Tritanomaly
48, 33.585, 149.432

Monochromacy



Original Color
49, 68.625, 129.988

Achromatopsia
40, 0.006, 296.813

Achromatomaly
43, 31.243, 129.552

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 68.919, 129.880 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(56, 133, 0)` looks like.

```
.text, #text, p{  
    color:rgb(56, 133, 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(56, 133, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 133, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 68.919, 129.880 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(56, 133, 0) }
```

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

```
.border{ border-color:rgb(56, 133, 0) }
```

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

Here you see how a box with a 4 pixel rgb(56, 133, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 133, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 133, 0);  
box-shadow:4px 4px 4px 4px rgb(56, 133, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 68.919, 129.880 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 133, 0) }
```

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

```
.background{ background-color: rgb(56, 133,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor