

Converting Colors

CIELCh(49, 5.035, 91.235)

Have a look what the booklet for
CIELCh(49, 5.035, 91.235) contains.

CIELCh(49, 4.958, 89.909)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(49, 4.958, 89.909)

Conversions

Conversions Part 1

Format	Color
Hex	78746C
RGB	120, 116, 108
RGB Percent	47%, 45%, 42%
CMY	0.5291, 0.5448, 0.5761
CMYK	0.00, 0.03, 0.10, 0.53
HSL	40°, 5%, 45%
HSV	40°, 10%, 47%
XYZ	16.7240, 17.5941, 16.7252
YIQ	116.2840, 4.9520, -1.6400

Conversions

Conversions Part 2

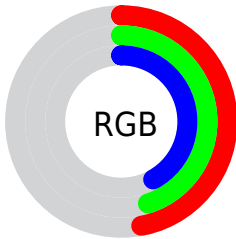
Format	Color
RYB	114, 120, 108
Decimal	7894124
CIELab	49.00, 0.01, 4.96
CIELCh	49, 4.958, 89.909
Yxy	17.5941, 0.3276, 0.3447
Android (android.graphics.Color)	4286084204 (0xFF78746C)
YUV	116.2840, -4.0840, 3.2589
Hunter-Lab	41.9453, -2.2343, 5.7204

Details

The CIELCh color $49, 4.958, 89.909$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $47, 4.958, 272.419$, and the grayscale version is $49, 0.007, 296.813$.

A 20% lighter version of the original color is $69, 5.149, 92.175$, and $29, 4.849, 86.878$ is the 20% darker color. If you saturate the color by 10%, you get $48, 10.027, 88.718$, and if you desaturate by 10%, it is $50, 0.009, 289.367$.

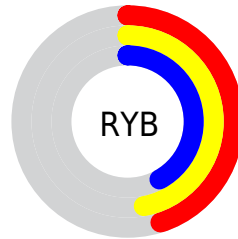
Distribution



Red (47%)

Green (45%)

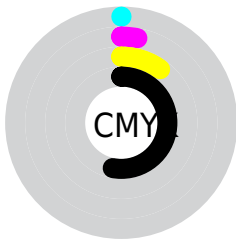
Blue (42%)



Red (45%)

Yellow (47%)

Blue (42%)

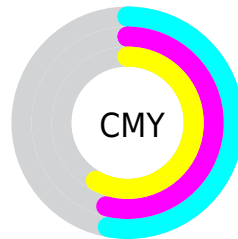


Cyan (0%)

Magenta (3%)

Yellow (10%)

Black (53%)



Cyan (53%)

Magenta (54%)

Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 4.958, 89.909 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, 4.958, 89.909 by changing the saturation by 10% instead.

 49, 4.958, 89.909  49, 4.958, 89.909

 100, 4.958, 89.909  39, 4.958, 89.909

 69, 4.958, 89.909  29, 4.958, 89.909

 79, 4.958, 89.909  19, 4.958, 89.909


 89, 4.958, 89.909  9, 4.958, 89.909

 99, 4.958, 89.909  0, 4.958, 89.909

 49, 4.958, 89.909  49, 4.958, 89.909

 48, 10.027, 88.718  50, 0.009, 289.367

 46, 15.191, 87.462  52, 4.876, 272.314

 45, 20.431, 86.167  53, 9.648, 273.389

■ 43, 25.704, 84.834

■ 55, 14.331,
274.427

■ 42, 30.928, 83.455

■ 57, 18.931,
275.419

■ 41, 35.948, 82.008

■ 40, 40.499, 80.441

■ 58, 23.454,
276.364

■ 39, 44.172, 78.653

■ 60, 27.907,
277.261

■ 37, 47.334, 76.812

■ 61, 32.295,
278.111

■ 63, 36.624,
278.916

Harmonies

Complementary

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



49, 4.958, 89.909



47, 4.958, 272.419

Rectangle

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



49, 4.958, 89.909



49, 4.958, 139.909



49, 4.958, 269.909



49, 4.958, 319.909

Sweetspot

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



49, 4.959, 89.925



64, 1.822, 90.672



47, 5.484, 354.533



33, 1.394, 90.608



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



49, 4.959, 89.925



62, 7.378, 89.654



50, 7.041, 116.022



25, 2.836, 90.031



39, 48.698, 76.688



75, 81.885, 75.055

Inverse Universe

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



47, 4.958, 272.419



59, 7.368, 272.726



46, 7.193, 297.430



24, 2.836, 272.301



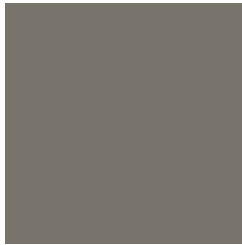
20, 55.682, 295.349



43, 99.078, 297.312

Previews

White Background



This preview shows how the CIELCh color 49, 4.958, 89.909 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, 4.958, 89.909 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

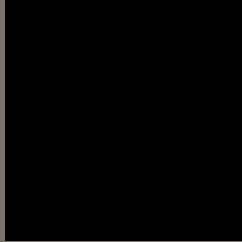
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

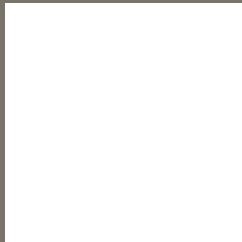
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 49, 4.958, 89.909

Background



This preview shows how black text looks on a background with the CIELCh color 49, 4.958, 89.909.



This preview shows how white text looks on a background with the CIELCh color 49, 4.958, 89.909.

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, 4.958, 89.909

Protanopia

49, 4.958, 89.909

Deuteranopia

49, 7.779, 33.198



Tritanopia
49, 6.209, 321.709

Trichromacy



Original Color
49, 4.958, 89.909

Protanomaly
49, 4.958, 89.909

Deuteranomaly
49, 5.925, 43.138

Tritanomaly
49, 3.015, 343.945

Monochromacy



Original Color
49, 4.958, 89.909

Achromatopsia
49, 0.007, 296.813

Achromatomaly
49, 1.796, 96.783

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 4.958, 89.909 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(120, 116, 108)` looks like.

```
.text, #text, p{  
    color:rgb(120, 116, 108)  
}
```

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(120, 116, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 116, 108) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 4.958, 89.909 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(120, 116, 108) }
```

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

```
.border{ border-color:rgb(120, 116, 108) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 116, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 116, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 116, 108);  
box-shadow:4px 4px 4px 4px rgb(120, 116,  
108) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 4.958, 89.909 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 116, 108) }
```

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

```
.background{ background-color: rgb(120,  
116, 108) }
```

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