

# Converting Colors

CIELCh(49, 7.809, 306.618)

Have a look what the booklet for  
CIELCh(49, 7.809, 306.618) contains.

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# Color

**CIELCh(49, 8.034, 308.163)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	78727F
RGB	120, 114, 127
RGB Percent	47%, 45%, 50%
CMY	0.5290, 0.5525, 0.5015
CMYK	0.06, 0.10, 0.00, 0.50
HSL	268°, 5%, 47%
HSV	268°, 10%, 50%
XYZ	17.6274, 17.5941, 22.5823
YIQ	117.2760, -0.5970, 5.3150

# Conversions

## Conversions Part 2

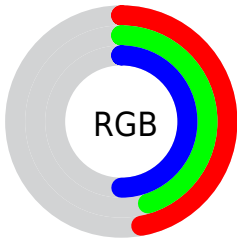
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	120, 114, 127
Decimal	7893631
CIE <sub>Lab</sub>	49.00, 4.96, -6.32
CIE <sub>LCh</sub>	49, 8.034, 308.163
Yxy	17.5941, 0.3050, 0.3044
Android (android.graphics.Color)	4286083711 (0xFF78727F)
<b>YUV</b>	117.2760, 4.7939, 2.3889
Hunter-Lab	41.9453, 1.6098, -2.5586

# Details

The CIELCh color  $49, 8.034, 308.163$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $52, 7.911, 127.272$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 8.042, 306.894$ , and  $29, 8.184, 309.696$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 16.111, 308.659$ , and if you desaturate by 10%, it is  $53, 0.183, 307.309$ .

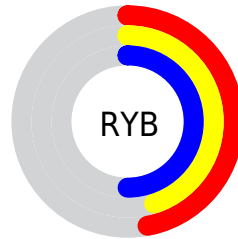
# Distribution



Red (47%)

Green (45%)

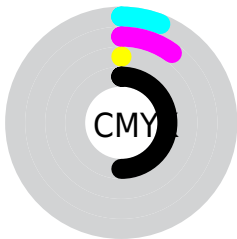
Blue (50%)



Red (47%)

Yellow (45%)

Blue (50%)

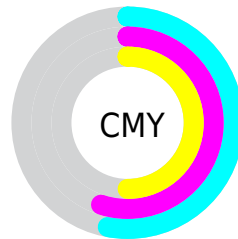


Cyan (6%)

Magenta (10%)

Yellow (0%)

Black (50%)



Cyan (53%)

Magenta (55%)

Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 8.034, 308.163 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, 8.034, 308.163 by changing the saturation by 10% instead.



■ 49, 8.034, 308.163

■ 49, 8.034, 308.163

■ 100, 8.034,  
308.163

■ 39, 8.034, 308.163

■ 69, 8.034, 308.163

■ 29, 8.034, 308.163

■ 79, 8.034, 308.163

■ 19, 8.034, 308.163

■ 89, 8.034, 308.163

■ 9, 8.034, 308.163

■ 99, 8.034, 308.163

■ 0, 8.034, 308.163

■ 49, 8.034, 308.163

■ 49, 8.034, 308.163

■ 45, 16.111,  
308.659

■ 53, 0.183, 307.309

■ 41, 24.394,

■ 57, 7.431, 127.329

309.194

61, 14.810,  
126.967

37, 32.828,  
309.756

65, 21.962,  
126.650

33, 41.312,  
310.325

70, 28.897,  
126.373

29, 49.666,  
310.861

74, 35.625,  
126.132

25, 57.596,  
311.307

78, 42.157,  
125.924

22, 64.662,  
311.575

82, 48.506,  
125.744

20, 70.305,  
311.558

86, 54.681,  
125.589

18, 74.828,  
311.412

# Harmonies

# Complementary

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



49, 8.034, 308.163



52, 7.911, 127.272

# Rectangle

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



49, 8.034, 308.163



49, 8.034, 358.163



49, 8.034, 128.163



49, 8.034, 178.163

# Sweetspot

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



49, 8.033, 308.160



66, 2.902, 307.813



51, 4.353, 251.092



35, 2.218, 307.851



85, 0.010, 296.813



36, 0.005, 296.813



# Same Dimension

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



49, 8.033, 308.160



62, 11.743, 308.260



50, 9.099, 323.585



25, 4.430, 308.106



18, 74.997, 311.409



0, 0.000, 0.000





# Inverse Universe

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



49, 6.685, 342.382



63, 9.765, 342.557



52, 9.078, 142.577



25, 3.689, 342.286



27, 51.340, 357.090



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 49, 8.034, 308.163 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, 8.034, 308.163 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

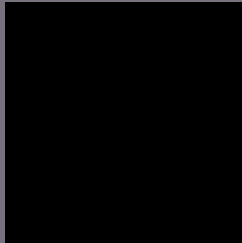
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 49, 8.034, 308.163**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 49, 8.034, 308.163.



This preview shows how white text looks on a background with the CIELCh color 49, 8.034, 308.163.

# 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, 8.034, 308.163

### Protanopia

49, 7.054, 287.969

### Deuteranopia

49, 9.171, 316.614



**Tritanopia**  
49, 5.674, 311.263



# Trichromacy



**Original Color**  
49, 8.034, 308.163

**Protanomaly**  
49, 7.697, 296.968

**Deuteranomaly**  
49, 9.008, 314.325

**Tritanomaly**  
49, 6.226, 309.395

# Monochromacy



**Original Color**  
49, 8.034, 308.163

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 3.057, 305.676

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 8.034, 308.163 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, 114, 127)` looks like.

```
.text, #text, p{  
    color:rgb(120, 114, 127)  
}
```

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, 114, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 114, 127) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 8.034, 308.163 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, 114, 127) }
```

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

```
.border{ border-color:rgb(120, 114, 127) }
```

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

Here you see how a box with a 4 pixel rgb(120, 114, 127) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 114, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 114, 127);  
box-shadow:4px 4px 4px 4px rgb(120, 114,  
127) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 8.034, 308.163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 114, 127) }
```

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

```
.background{ background-color: rgb(120,  
114, 127) }
```

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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