

# Converting Colors

CIELCh(50, 2.492, 309.173)

Have a look what the booklet for  
CIELCh(50, 2.492, 309.173) contains.

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# Color

**CIELCh(50, 2.488, 309.172)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78767A
RGB	120, 118, 122
RGB Percent	47%, 46%, 48%
CMY	0.5287, 0.5365, 0.5208
CMYK	0.02, 0.03, 0.00, 0.52
HSL	270°, 2%, 47%
HSV	270°, 3%, 48%
XYZ	17.7981, 18.4187, 21.0920
YIQ	119.0540, -0.0920, 1.6680

# Conversions

## Conversions Part 2

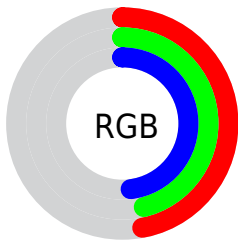
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	120, 118, 122
Decimal	7894650
CIE Lab	50.00, 1.57, -1.93
CIE LCh	50, 2.488, 309.172
Yxy	18.4187, 0.3106, 0.3214
Android (android.graphics.Color)	4286084730 (0xFF78767A)
YUV	119.0540, 1.4524, 0.8296
Hunter-Lab	42.9170, -1.0789, 0.9032

# Details

The CIELCh color **50, 2.488, 309.172** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **51, 2.464, 128.958**, and the grayscale version is **50, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 2.331, 309.121**, and **30, 2.123, 314.781** is the 20% darker color. If you saturate the color by 10%, you get **46, 10.209, 309.628**, and if you desaturate by 10%, it is **54, 5.016, 128.813**.

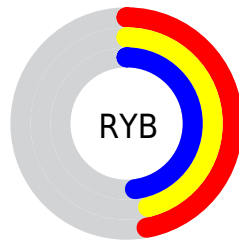
# Distribution



Red (47%)

Green (46%)

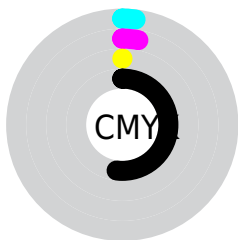
Blue (48%)



Red (47%)

Yellow (46%)

Blue (48%)

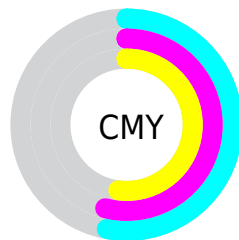


Cyan (2%)

Magenta (3%)

Yellow (0%)

Black (52%)



Cyan (53%)

Magenta (54%)

Yellow (52%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 2.488, 309.172 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 50, 2.488, 309.172 by changing the saturation by 10% instead.



■ 50, 2.488, 309.172

■ 50, 2.488, 309.172

■ 100, 2.488,  
309.172

■ 40, 2.488, 309.172

■ 70, 2.488, 309.172

■ 30, 2.488, 309.172

■ 80, 2.488, 309.172

■ 20, 2.488, 309.172

■ 90, 2.488, 309.172

■ 10, 2.488, 309.172

■ 0, 2.488, 309.172

■ 50, 2.488, 309.172

■ 50, 2.488, 309.172

■ 46, 10.209,  
309.628

■ 54, 5.016, 128.813

■ 42, 18.136,  
310.110

■ 58, 12.296,  
128.444

■ 38, 26.232,  
310.618

■ 62, 19.356,  
128.123

■ 34, 34.425,  
311.140

■ 66, 26.204,  
127.840

■ 31, 42.590,  
311.649

■ 70, 32.849,  
127.592

■ 27, 50.518,  
312.102

■ 74, 39.302,  
127.376

■ 24, 57.883,  
312.435

■ 77, 45.573,  
127.189

■ 21, 64.235,  
312.563

■ 81, 51.672,  
127.027

■ 19, 69.085,  
312.392

■ 85, 57.611,  
126.888

# Harmonies

# Complementary

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



50, 2.488, 309.172



51, 2.464, 128.958

# Rectangle

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



50, 2.488, 309.172



50, 2.488, 359.172



50, 2.488, 129.172



50, 2.488, 179.172

# Sweetspot

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



50, 2.487, 309.163



65, 0.941, 308.997



50, 1.388, 254.161



33, 0.532, 308.985



83, 0.010, 296.813



34, 0.005, 296.813



# Same Dimension

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



50, 2.487, 309.163



63, 3.755, 309.204



50, 2.838, 324.104



25, 2.145, 309.225



18, 73.311, 312.270



40, 124.101, 311.675





# Inverse Universe

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



50, 2.003, 343.751



63, 3.025, 343.845



51, 2.825, 143.891



25, 1.728, 343.890



26, 50.116, 0.434



54, 83.991, 2.895



# Previews

## White Background



This preview shows how the CIELCh color 50, 2.488, 309.172 looks on a white background.

## Color Contrast Check

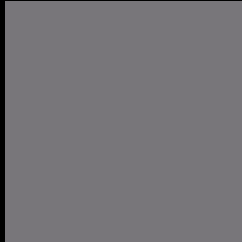
Large Text (above 18pt) WCAG AA ✓ Pass

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 50, 2.488, 309.172 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

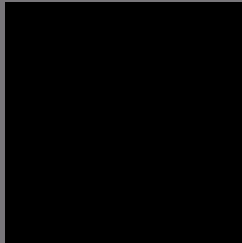
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

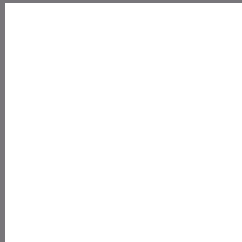
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 2.488, 309.172**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 2.488, 309.172.



This preview shows how white text looks on a background with the CIELCh color 50, 2.488, 309.172.

# 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

50, 2.488, 309.172

### Protanopia

50, 2.488, 309.172

### Deuteranopia

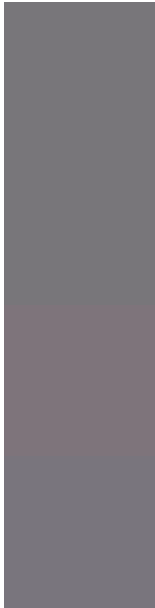
50, 7.349, 340.772



**Tritanopia**  
50, 6.091, 305.869



# Trichromacy



## Original Color

50, 2.488, 309.172

## Protanomaly

50, 2.488, 309.172

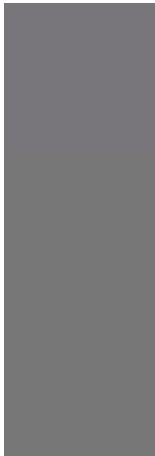
## Deuteranomaly

50, 5.760, 334.761

## Tritanomaly

50, 4.971, 309.322

# Monochromacy



## Original Color

50, 2.488, 309.172

## Achromatopsia

50, 0.007, 296.813

## Achromatomaly

50, 0.591, 290.329

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 2.488, 309.172 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, 118, 122)` looks like.

```
.text, #text, p{  
    color:rgb(120, 118, 122)  
}
```

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, 118, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 118, 122) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 2.488, 309.172 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, 118, 122) }
```

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

```
.border{ border-color:rgb(120, 118, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 118, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 118, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 118, 122);  
box-shadow:4px 4px 4px 4px rgb(120, 118,  
122) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 2.488, 309.172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 118, 122) }
```

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

```
.background{ background-color: rgb(120,  
118, 122) }
```

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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