

# Converting Colors

CIELCh(48, 6.209, 159.187)

Have a look what the booklet for  
CIELCh(48, 6.209, 159.187) contains.

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# Color

**CIELCh(48, 6.402, 158.697)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	69756E
RGB	105, 117, 110
RGB Percent	41%, 46%, 43%
CMY	0.5889, 0.5419, 0.5693
CMYK	0.10, 0.00, 0.06, 0.54
HSL	145°, 5%, 43%
HSV	145°, 10%, 46%
XYZ	14.9494, 16.7945, 17.1542
YIQ	112.6140, -4.9050, -4.7210

# Conversions

## Conversions Part 2

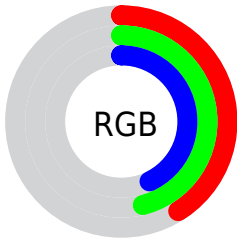
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	105, 113, 117
Decimal	6911342
CIE <sub>Lab</sub>	48.00, -5.96, 2.33
CIE <sub>LCh</sub>	48, 6.402, 158.697
Yxy	16.7945, 0.3057, 0.3435
Android (android.graphics.Color)	4285101422 (0xFF69756E)
YUV	112.6140, -1.2887, -6.6775
Hunter-Lab	40.9810, -6.6019, 3.8686

# Details

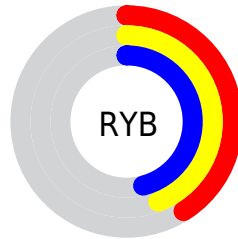
The CIELCh color  $48, 6.402, 158.697$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $46, 6.461, 340.130$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $68, 6.272, 161.084$ , and  $28, 6.256, 160.144$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 12.652, 157.845$ , and if you desaturate by 10%, it is  $49, 0.164, 160.950$ .

# Distribution



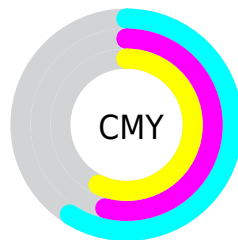
- Red (41%)
- Green (46%)
- Blue (43%)



- Red (41%)
- Yellow (44%)
- Blue (46%)



- Cyan (10%)
- Magenta (0%)
- Yellow (6%)
- Black (54%)



- Cyan (59%)
- Magenta (54%)
- Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 6.402, 158.697 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 48, 6.402, 158.697 by changing the saturation by 10% instead.



■ 48, 6.402, 158.697

■ 48, 6.402, 158.697

■ 100, 6.402,  
158.697

■ 38, 6.402, 158.697

■ 68, 6.402, 158.697

■ 28, 6.402, 158.697

■ 78, 6.402, 158.697

■ 18, 6.402, 158.697

■ 88, 6.402, 158.697

■ 8, 6.402, 158.697

■ 98, 6.402, 158.697

■ 0, 6.402, 158.697

■ 48, 6.402, 158.697

■ 48, 6.402, 158.697

■ 47, 12.652,  
157.845

■ 49, 0.164, 160.950

■ 46, 18.838,

■ 50, 6.012, 340.025

156.906

52, 12.081,  
340.655

45, 24.879,  
155.850

53, 18.016,  
341.218

45, 30.677,  
154.653

55, 23.796,  
341.734

44, 36.135,  
153.296

56, 29.411,  
342.210

43, 41.156,  
151.761

58, 34.856,  
342.653

43, 45.666,  
150.038

59, 40.131,  
343.067

43, 49.618,  
148.133

61, 45.239,  
343.455

43, 53.098,  
146.310

# Harmonies

# Complementary

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



48, 6.402, 158.697



46, 6.461, 340.130

# Rectangle

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



48, 6.402, 158.697



48, 6.402, 208.697



48, 6.402, 338.697



48, 6.402, 28.697

# Sweetspot

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



48, 6.403, 158.694



63, 2.323, 159.329



48, 7.319, 125.030



32, 1.752, 159.253



82, 0.010, 296.813



33, 0.005, 296.813



# Same Dimension

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



48, 6.403, 158.694



62, 9.336, 158.526



48, 4.811, 190.471



24, 3.519, 158.795



45, 55.043, 146.189



87, 96.009, 144.883





# Inverse Universe

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



46, 6.461, 340.130



58, 9.433, 340.294



45, 5.059, 11.898



23, 3.548, 340.032



26, 50.715, 353.082



54, 85.202, 355.033



# Previews

## White Background



This preview shows how the CIELCh color 48, 6.402, 158.697 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 48, 6.402, 158.697 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

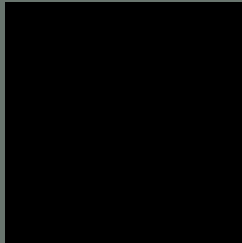
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

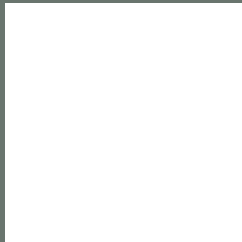
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 48, 6.402, 158.697**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 48, 6.402, 158.697.

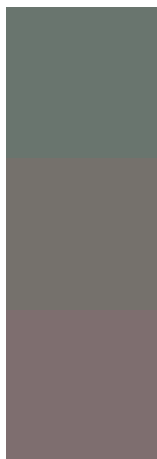


This preview shows how white text looks on a background with the CIELCh color 48, 6.402, 158.697.

# 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

48, 6.402, 158.697

### Protanopia

48, 3.363, 80.204

### Deuteranopia

48, 6.680, 15.131



**Tritanopia**  
48, 6.072, 260.368



# Trichromacy



**Original Color**  
48, 6.402, 158.697

**Protanomaly**  
48, 2.969, 117.717

**Deuteranomaly**  
48, 2.532, 32.961

**Tritanomaly**  
48, 4.263, 223.645

# Monochromacy



**Original Color**  
48, 6.402, 158.697

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
48, 2.705, 158.413

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 6.402, 158.697 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(105, 117, 110)` looks like.

```
.text, #text, p{  
    color:rgb(105, 117, 110)  
}
```

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(105, 117, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 117, 110) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 6.402, 158.697 is called "border". The border property can be set on classes, ids or directly on the HTML element.

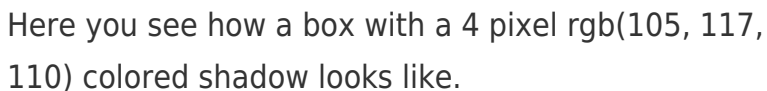
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(105, 117, 110) }
```

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

```
.border{ border-color:rgb(105, 117, 110) }
```

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



Here you see how a box with a 4 pixel `rgb(105, 117, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(105, 117, 110); -webkit-box-shadow:4px 4px 4px 4px rgb(105, 117, 110); box-shadow:4px 4px 4px 4px rgb(105, 117, 110) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 6.402, 158.697 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 117, 110) }
```

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

```
.background{ background-color: rgb(105,  
117, 110) }
```

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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