

# Converting Colors

CIELCh(50, 7.679, 69.854)

Have a look what the booklet for  
CIELCh(50, 7.679, 69.854) contains.

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# Color

**CIELCh(50, 7.733, 68.418)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81756B
RGB	129, 117, 107
RGB Percent	51%, 46%, 42%
CMY	0.4945, 0.5415, 0.5808
CMYK	0.00, 0.09, 0.17, 0.49
HSL	27°, 9%, 46%
HSV	27°, 17%, 51%
XYZ	18.0368, 18.4187, 16.4880
YIQ	119.4480, 10.3620, -0.5660

# Conversions

## Conversions Part 2

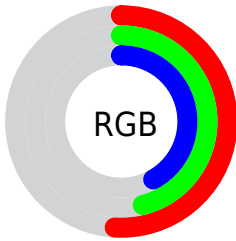
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	129, 125, 107
Decimal	8484203
CIE <sub>Lab</sub>	50.00, 2.84, 7.19
CIE <sub>LCh</sub>	50, 7.733, 68.418
Yxy	18.4187, 0.3407, 0.3479
Android (android.graphics.Color)	4286674283 (0xFF81756B)
YUV	119.4480, -6.1369, 8.3771
Hunter-Lab	42.9170, -0.0862, 7.2635

# Details

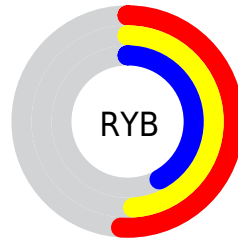
The CIELCh color  $50, 7.733, 68.418$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $49, 7.323, 252.557$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 7.863, 69.220$ , and  $30, 7.765, 67.201$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 12.595, 67.333$ , and if you desaturate by 10%, it is  $52, 3.118, 69.485$ .

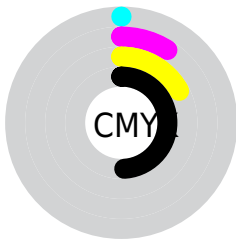
# Distribution



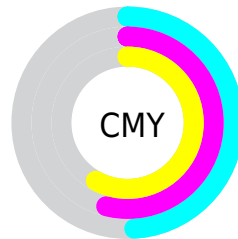
- Red (51%)
- Green (46%)
- Blue (42%)



- Red (51%)
- Yellow (49%)
- Blue (42%)



- Cyan (0%)
- Magenta (9%)
- Yellow (17%)
- Black (49%)



- Cyan (49%)
- Magenta (54%)
- Yellow (58%)









# Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 7.733, 68.418 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, 7.733, 68.418 by changing the saturation by 10% instead.



 50, 7.733, 68.418	 50, 7.733, 68.418
 100, 7.733, 68.418	 40, 7.733, 68.418
 70, 7.733, 68.418	 30, 7.733, 68.418
 80, 7.733, 68.418	 20, 7.733, 68.418
 90, 7.733, 68.418	 10, 7.733, 68.418
	 0, 7.733, 68.418

 50, 7.733, 68.418	 50, 7.733, 68.418
 48, 12.595, 67.333	 52, 3.118, 69.485
 46, 17.718, 66.233	 55, 1.272, 250.907
 43, 23.104, 65.140	 57, 5.458, 251.811

41, 28.730, 64.051

59, 9.463, 252.842

39, 34.521, 62.940

62, 13.307,  
253.857

37, 40.300, 61.739

64, 17.009,  
254.842

36, 45.711, 60.291

34, 50.474, 58.560

67, 20.586,  
255.792

33, 52.050, 58.253

69, 24.052,  
256.704

71, 27.419,  
257.579

# Harmonies

# Complementary

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



50, 7.733, 68.418



49, 7.323, 252.557

# Rectangle

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



50, 7.733, 68.418



50, 7.733, 118.418



50, 7.733, 248.418



50, 7.733, 298.418

# Sweetspot

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



50, 7.733, 68.431



68, 2.730, 69.664



48, 11.444, 342.375



35, 1.857, 69.613



85, 0.010, 296.813



36, 0.005, 296.813



# Same Dimension

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



50, 7.733, 68.431



63, 11.374, 68.059



53, 12.009, 106.452



26, 2.479, 69.282



33, 51.621, 58.293



0, 0.000, 0.000





# Inverse Universe

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



49, 7.323, 252.557



62, 10.639, 253.064



46, 12.420, 289.963



25, 2.415, 251.501



29, 38.295, 277.605



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 50, 7.733, 68.418 looks on a white 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

# Black Background



This preview shows how the CIE LCh color 50, 7.733, 68.418 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

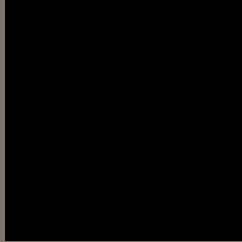
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 50, 7.733, 68.418**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 7.733, 68.418.



This preview shows how white text looks on a background with the CIELCh color 50, 7.733, 68.418.

# 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, 7.733, 68.418

### Protanopia

50, 6.729, 91.208

### Deuteranopia

50, 9.738, 48.640



**Tritanopia**  
50, 8.666, 343.096



# Trichromacy



**Original Color**  
50, 7.733, 68.418

**Protanomaly**  
50, 6.720, 79.418

**Deuteranomaly**  
50, 8.948, 55.703

**Tritanomaly**  
50, 6.271, 9.393

# Monochromacy



**Original Color**  
50, 7.733, 68.418

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 2.680, 60.145

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 7.733, 68.418 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(129, 117, 107)` looks like.

```
.text, #text, p{  
    color:rgb(129, 117, 107)  
}
```

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(129, 117, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 117, 107) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 7.733, 68.418 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(129, 117, 107) }
```

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

```
.border{ border-color:rgb(129, 117, 107) }
```

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

Here you see how a box with a 4 pixel rgb(129, 117, 107) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 117, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 117, 107);  
box-shadow:4px 4px 4px 4px rgb(129, 117,  
107) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 7.733, 68.418 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 117, 107) }
```

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

```
.background{ background-color: rgb(129,  
117, 107) }
```

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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