

# Converting Colors

CIELCh(49, 7.672, 118.941)

Have a look what the booklet for  
CIELCh(49, 7.672, 118.941) contains.

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# Color

**CIELCh(49, 7.703, 118.505)**

# Conversions

## Conversions Part 1

Format	Color
Hex	737669
RGB	115, 118, 105
RGB Percent	45%, 46%, 41%
CMY	0.5494, 0.5376, 0.5886
CMYK	0.03, 0.00, 0.11, 0.54
HSL	74°, 6%, 44%
HSV	74°, 11%, 46%
XYZ	16.0730, 17.5941, 15.8910
YIQ	115.6210, 2.3850, -4.6790

# Conversions

## Conversions Part 2

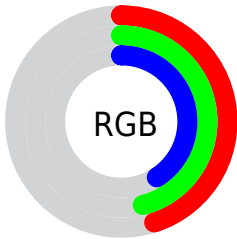
<b>Format</b>	<b>Color</b>
<b>RYB</b>	105, 118, 108
Decimal	7566953
CIELab	49.00, -3.68, 6.77
CIElCh	49, 7.703, 118.505
Yxy	17.5941, 0.3243, 0.3550
Android (android.graphics.Color)	4285757033 (0xFF737669)
YUV	115.6210, -5.2362, -0.5446
Hunter-Lab	41.9453, -5.0050, 6.8996

# Details

The CIELCh color  $49, 7.703, 118.505$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $45, 7.876, 299.891$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 7.748, 118.012$ , and  $29, 7.798, 118.962$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 14.663, 117.886$ , and if you desaturate by 10%, it is  $50, 0.711, 119.141$ .

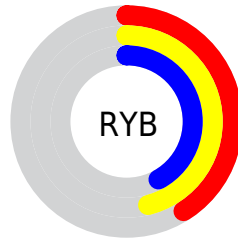
# Distribution



Red (45%)

Green (46%)

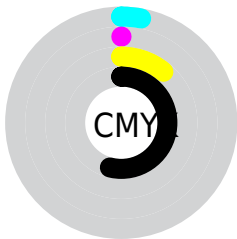
Blue (41%)



Red (41%)

Yellow (46%)

Blue (42%)

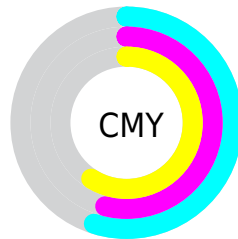


Cyan (3%)

Magenta (0%)

Yellow (11%)

Black (54%)



Cyan (55%)

Magenta (54%)













Yellow (59%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 7.703, 118.505 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, 7.703, 118.505 by changing the saturation by 10% instead.



 49, 7.703, 118.505	 49, 7.703, 118.505
 100, 7.703, 118.505	 39, 7.703, 118.505
 69, 7.703, 118.505	 29, 7.703, 118.505
 79, 7.703, 118.505	 19, 7.703, 118.505
 89, 7.703, 118.505	 9, 7.703, 118.505
 99, 7.703, 118.505	 0, 7.703, 118.505

 49, 7.703, 118.505	 49, 7.703, 118.505
 48, 14.663, 117.886	 50, 0.711, 119.141
 48, 21.538,	 50, 6.285, 299.705

117.261

51, 13.259,  
300.267

48, 28.259,  
116.657

51, 20.193,  
300.796

47, 34.725,  
116.105

52, 27.073,  
301.293

47, 40.783,  
115.648

53, 33.891,  
301.757

47, 46.219,  
115.348

54, 40.638,  
302.189

46, 50.758,  
115.283

54, 47.308,  
302.590

46, 54.114,  
115.540

55, 53.897,  
302.960

46, 56.552,  
115.901

# Harmonies

# Complementary

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



49, 7.703, 118.505



45, 7.876, 299.891

# Rectangle

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



49, 7.703, 118.505



49, 7.703, 168.505



49, 7.703, 298.505



49, 7.703, 348.505

# Sweetspot

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



49, 7.704, 118.511



63, 2.591, 119.003



46, 4.580, 41.073



32, 1.954, 118.959



82, 0.010, 296.813



33, 0.005, 296.813



# Same Dimension

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



49, 7.704, 118.511



62, 11.242, 118.368



48, 8.564, 135.816



24, 3.916, 118.635



48, 58.097, 115.947



91, 98.814, 116.603





# Inverse Universe

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



45, 7.876, 299.891



57, 11.542, 300.054



46, 8.635, 316.686



22, 3.990, 299.754



14, 75.950, 307.818



34, 129.524, 307.404



# Previews

## White Background



This preview shows how the CIELCh color 49, 7.703, 118.505 looks on a white background.

## Color Contrast Check

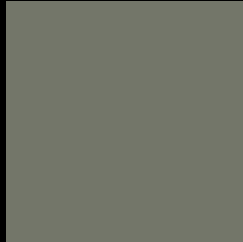
Large Text (above 18pt) WCAG AA ✓ Pass

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, 7.703, 118.505 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

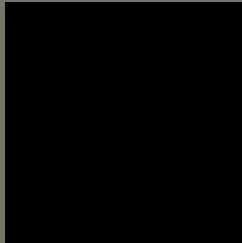
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 7.703, 118.505

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 7.703, 118.505.



This preview shows how white text looks on a background with the CIELCh color 49, 7.703, 118.505.

# 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, 7.703, 118.505

### Protanopia

49, 7.321, 92.475

### Deuteranopia

49, 8.827, 43.537



**Tritanopia**  
49, 5.441, 303.424



# Trichromacy



**Original Color**  
49, 7.703, 118.505

**Protanomaly**  
49, 7.636, 102.830

**Deuteranomaly**  
49, 6.596, 64.815

**Tritanomaly**  
49, 0.722, 324.246

# Monochromacy



**Original Color**  
49, 7.703, 118.505

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 2.955, 117.724

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 7.703, 118.505 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(115, 118, 105)` looks like.

```
.text, #text, p{  
    color:rgb(115, 118, 105)  
}
```

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(115, 118, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 118, 105) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 7.703, 118.505 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(115, 118, 105) }
```

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

```
.border{ border-color:rgb(115, 118, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(115, 118, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 118, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 118, 105);  
box-shadow:4px 4px 4px 4px rgb(115, 118,  
105) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 7.703, 118.505 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 118, 105) }
```

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

```
.background{ background-color: rgb(115,  
118, 105) }
```

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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