

# Converting Colors

CIELCh(49, 7.502, 291.166)

Have a look what the booklet for  
CIELCh(49, 7.502, 291.166) contains.

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# Color

**CIELCh(49, 7.648, 291.191)**

# Conversions

## Conversions Part 1

Format	Color
Hex	737380
RGB	115, 115, 128
RGB Percent	45%, 45%, 50%
CMY	0.5474, 0.5474, 0.4964
CMYK	0.10, 0.10, 0.00, 0.50
HSL	240°, 5%, 48%
HSV	240°, 10%, 50%
XYZ	17.2226, 17.5941, 23.0514
YIQ	116.4820, -4.1730, 4.0430

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	115, 115, 128
Decimal	7566208
CIE Lab	49.00, 2.76, -7.13
CIE LCh	49, 7.648, 291.191
Yxy	17.5941, 0.2976, 0.3040
Android (android.graphics.Color)	4285756288 (0xFF737380)
<b>YUV</b>	116.4820, 5.6784, -1.2997
Hunter-Lab	41.9453, -0.1129, -3.2216

# Details

The CIELCh color  $49, 7.648, 291.191$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $53, 7.475, 109.236$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 7.699, 290.961$ , and  $29, 7.744, 291.650$  is the 20% darker color. If you saturate the color by 10%, you get  $44, 15.492, 292.347$ , and if you desaturate by 10%, it is  $54, 0.103, 290.639$ .

# Distribution



Red (45%)

Green (45%)

Blue (50%)



Red (45%)

Yellow (45%)

Blue (50%)



Cyan (10%)

Magenta (10%)

Yellow (0%)

Black (50%)



Cyan (55%)

Magenta (55%)













Yellow (50%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 7.648, 291.191 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, 7.648, 291.191 by changing the saturation by 10% instead.



 49, 7.648, 291.191	 49, 7.648, 291.191
 100, 7.648, 291.191	 39, 7.648, 291.191
 69, 7.648, 291.191	 29, 7.648, 291.191
 79, 7.648, 291.191	 19, 7.648, 291.191
 89, 7.648, 291.191	 9, 7.648, 291.191
 99, 7.648, 291.191	 0, 7.648, 291.191

 49, 7.648, 291.191	 49, 7.648, 291.191
 44, 15.492, 292.347	 54, 0.103, 290.639
 40, 23.662,	 58, 7.162, 109.334

293.709

63, 14.168,  
108.612

35, 32.174,  
295.294

68, 20.933,  
107.989

30, 41.020,  
297.111

72, 27.472,  
107.452

26, 50.127,  
299.131

77, 33.802,  
106.986

22, 59.257,  
301.263

81, 39.934,  
106.580

18, 67.847,  
303.312

85, 45.882,  
106.225

15, 74.892,  
304.986

90, 51.656,  
105.914

13, 80.454,  
306.286

# Harmonies

# Complementary

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



49, 7.648, 291.191



53, 7.475, 109.236

# Rectangle

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



49, 7.648, 291.191



49, 7.648, 341.191



49, 7.648, 111.191



49, 7.648, 161.191

# Sweetspot

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



49, 7.647, 291.186



66, 2.758, 290.483



53, 5.045, 197.523



34, 2.109, 290.550



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, 7.647, 291.186



61, 11.206, 291.419



50, 8.055, 308.917



24, 4.222, 291.076



13, 80.043, 306.286



0, 0.000, 0.000





# Inverse Universe

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



50, 5.356, 19.949



62, 7.881, 20.114



53, 7.939, 128.058



25, 2.951, 19.870



25, 61.099, 38.344



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 49, 7.648, 291.191 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, 7.648, 291.191 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

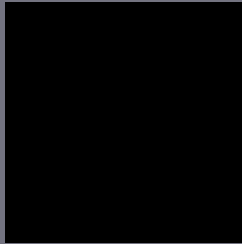
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

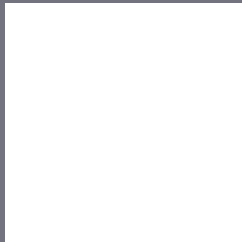
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 49, 7.648, 291.191

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 7.648, 291.191.

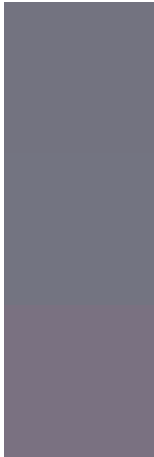


This preview shows how white text looks on a background with the CIELCh color 49, 7.648, 291.191.

# 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, 7.648, 291.191

### Protanopia

49, 7.639, 288.296

### Deuteranopia

49, 10.094, 311.725



**Tritanopia**  
49, 5.297, 286.655



# Trichromacy



**Original Color**  
49, 7.648, 291.191

**Protanomaly**  
49, 7.639, 288.296

**Deuteranomaly**  
49, 9.162, 306.066

**Tritanomaly**  
49, 5.882, 287.165

# Monochromacy



**Original Color**  
49, 7.648, 291.191

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 2.941, 290.581

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 7.648, 291.191 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, 115, 128)` looks like.

```
.text, #text, p{  
    color:rgb(115, 115, 128)  
}
```

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, 115, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 115, 128) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 7.648, 291.191 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, 115, 128) }
```

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

```
.border{ border-color:rgb(115, 115, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(115, 115, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 115, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 115, 128);  
box-shadow:4px 4px 4px 4px rgb(115, 115,  
128) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 7.648, 291.191 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 115, 128) }
```

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

```
.background{ background-color: rgb(115,  
115, 128) }
```

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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