

# Converting Colors

CIELCh(49, 7.366, 37.313)

Have a look what the booklet for  
CIELCh(49, 7.366, 37.313) contains.

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# Color

**CIELCh(49, 7.532, 38.150)**

# Conversions

## Conversions Part 1

Format	Color
Hex	82716D
RGB	130, 113, 109
RGB Percent	51%, 44%, 43%
CMY	0.4910, 0.5576, 0.5733
CMYK	0.00, 0.13, 0.16, 0.49
HSL	11°, 9%, 47%
HSV	11°, 16%, 51%
XYZ	17.8058, 17.5941, 16.8687
YIQ	117.6270, 11.4160, 2.3600

# Conversions

## Conversions Part 2

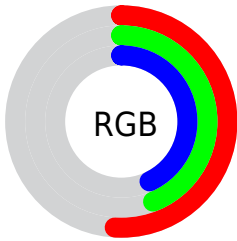
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	130, 114, 109
Decimal	8548717
CIE <sub>Lab</sub>	49.00, 5.92, 4.65
CIE <sub>LCh</sub>	49, 7.532, 38.150
Yxy	17.5941, 0.3407, 0.3366
Android (android.graphics.Color)	4286738797 (0xFF82716D)
YUV	117.6270, -4.2531, 10.8511
Hunter-Lab	41.9453, 2.3692, 5.5177

# Details

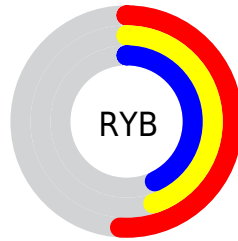
The CIELCh color  $49, 7.532, 38.150$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $52, 6.808, 218.890$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 7.536, 41.126$ , and  $29, 7.286, 35.706$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 12.687, 38.211$ , and if you desaturate by 10%, it is  $52, 2.763, 38.156$ .

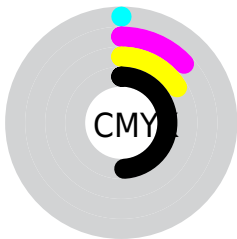
# Distribution



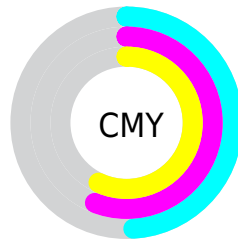
- Red (51%)
- Green (44%)
- Blue (43%)



- Red (51%)
- Yellow (45%)
- Blue (43%)



- Cyan (0%)
- Magenta (13%)
- Yellow (16%)
- Black (49%)



- Cyan (49%)
- Magenta (56%)
- Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 7.532, 38.150 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, 7.532, 38.150 by changing the saturation by 10% instead.




 49, 7.532, 38.150       49, 7.532, 38.150

 100, 7.532, 38.150       39, 7.532, 38.150

 69, 7.532, 38.150       29, 7.532, 38.150

 79, 7.532, 38.150       19, 7.532, 38.150

 89, 7.532, 38.150       9, 7.532, 38.150

 99, 7.532, 38.150       0, 7.532, 38.150

 49, 7.532, 38.150       49, 7.532, 38.150

 46, 12.687, 38.211       52, 2.763, 38.156

 43, 18.256, 38.391       56, 1.650, 218.709

 40, 24.245, 38.746       59, 5.744, 218.770

37, 30.637, 39.312

62, 9.552, 219.020

34, 37.365, 40.108

66, 13.108,  
219.318

32, 44.278, 41.106

69, 16.443,  
219.643

30, 51.045, 42.151

28, 56.938, 42.828

72, 19.584,  
219.983

28, 58.952, 43.126

76, 22.553,  
220.332

79, 25.372,  
220.684

# Harmonies

# Complementary

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



49, 7.532, 38.150



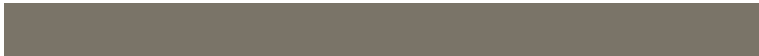
52, 6.808, 218.890

# Rectangle

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



49, 7.532, 38.150



49, 7.532, 88.150



49, 7.532, 218.150



49, 7.532, 268.150

# Sweetspot

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



49, 7.531, 38.163



67, 2.755, 38.140



48, 13.134, 330.899



34, 1.876, 38.150



85, 0.010, 296.813



36, 0.005, 296.813



# Same Dimension

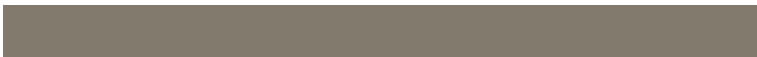
The Same Dimension uses a secret algorithm to generate beautiful new colors.



49, 7.531, 38.163



61, 11.084, 38.167



52, 8.749, 90.482



25, 2.514, 38.169



27, 58.062, 43.065



0, 0.000, 0.000





# Inverse Universe

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



52, 6.808, 218.890



65, 9.799, 219.013



49, 8.750, 274.565



26, 2.381, 218.699



40, 26.125, 232.231



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 49, 7.532, 38.150 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, 7.532, 38.150 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

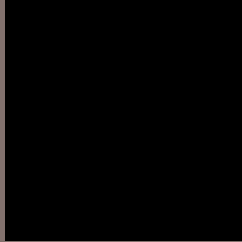
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 7.532, 38.150

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 7.532, 38.150.



This preview shows how white text looks on a background with the CIELCh color 49, 7.532, 38.150.

# 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, 7.532, 38.150

### Protanopia

49, 3.346, 80.223

### Deuteranopia

49, 8.199, 32.565



**Tritanopia**  
49, 9.707, 347.727



# Trichromacy



**Original Color**  
49, 7.532, 38.150

**Protanomaly**  
49, 4.745, 57.634

**Deuteranomaly**  
49, 8.199, 32.565

**Tritanomaly**  
49, 8.172, 3.769

# Monochromacy



**Original Color**  
49, 7.532, 38.150

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 2.924, 31.132

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 7.532, 38.150 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(130, 113, 109)` looks like.

```
.text, #text, p{  
    color:rgb(130, 113, 109)  
}
```

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(130, 113, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 113, 109) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 7.532, 38.150 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(130, 113, 109) }
```

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

```
.border{ border-color:rgb(130, 113, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 113, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 113, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 113, 109);  
box-shadow:4px 4px 4px 4px rgb(130, 113,  
109) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 7.532, 38.150 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 113, 109) }
```

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

```
.background{ background-color: rgb(130,  
113, 109) }
```

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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