

# Converting Colors

CIELCh(49, 11.469, 12.534)

Have a look what the booklet for  
CIELCh(49, 11.469, 12.534) contains.

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# Color

**CIELCh(49, 11.415, 11.995)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	896E71
RGB	137, 110, 113
RGB Percent	54%, 43%, 44%
CMY	0.4636, 0.5694, 0.5577
CMYK	0.00, 0.20, 0.18, 0.46
HSL	353°, 11%, 48%
HSV	353°, 20%, 54%
XYZ	18.8027, 17.5941, 17.9659
YIQ	118.4150, 15.1290, 6.6570

# Conversions

## Conversions Part 2

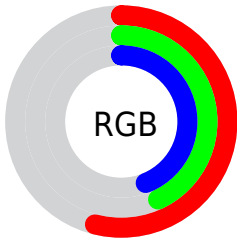
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	137, 110, 113
Decimal	9006705
CIE <sub>Lab</sub>	49.00, 11.17, 2.37
CIE <sub>LCh</sub>	49, 11.415, 11.995
Yxy	17.5941, 0.3459, 0.3236
Android (android.graphics.Color)	4287196785 (0xFF896E71)
YUV	118.4150, -2.6696, 16.2990
Hunter-Lab	41.9453, 6.6116, 3.9667

# Details

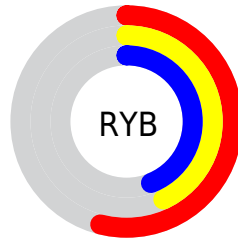
The CIELCh color  $49, 11.415, 11.995$  is a dark color, and the websafe version is hex  $996666$ . A complement of this color would be  $55, 10.346, 188.777$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 11.378, 12.163$ , and  $29, 11.719, 12.200$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 17.703, 13.210$ , and if you desaturate by 10%, it is  $53, 5.459, 10.981$ .

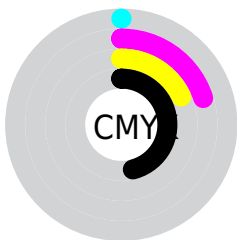
# Distribution



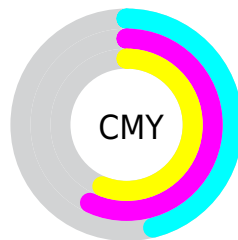
- Red (54%)
- Green (43%)
- Blue (44%)



- Red (54%)
- Yellow (43%)
- Blue (44%)



- Cyan (0%)
- Magenta (20%)
- Yellow (18%)
- Black (46%)















- Cyan (46%)
- Magenta (57%)
- Yellow (56%)







# Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 11.415, 11.995 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, 11.415, 11.995 by changing the saturation by 10% instead.



 49, 11.415, 11.995	 49, 11.415, 11.995
 100, 11.415, 11.995	 39, 11.415, 11.995
 69, 11.415, 11.995	 29, 11.415, 11.995
 79, 11.415, 11.995	 19, 11.415, 11.995
 89, 11.415, 11.995	 9, 11.415, 11.995
 99, 11.415, 11.995	 0, 11.415, 11.995

 49, 11.415, 11.995	 49, 11.415, 11.995
 45, 17.703, 13.210	 53, 5.459, 10.981
 41, 24.273, 14.695	 57, 0.145, 193.019

■ 38, 31.017, 16.552

■ 61, 5.403, 189.617

■ 35, 37.770, 18.896

■ 65, 10.337,  
188.985

■ 32, 44.321, 21.848

■ 70, 14.974,  
188.455

■ 30, 50.456, 25.491

■ 29, 55.994, 29.763

■ 74, 19.344,  
187.994

■ 28, 61.019, 33.940

■ 78, 23.473,  
187.585

■ 28, 61.153, 34.032

■ 82, 27.390,  
187.221

■ 86, 31.118,  
186.892

# Harmonies

# Complementary

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



49, 11.415, 11.995



55, 10.346, 188.777

# Rectangle

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



49, 11.415, 11.995



49, 11.415, 61.995



49, 11.415, 191.995



49, 11.415, 241.995

# Sweetspot

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



49, 11.414, 12.001



70, 4.137, 10.625



49, 18.373, 322.144



36, 2.738, 10.680



87, 0.010, 296.813



38, 0.005, 296.813



# Same Dimension

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



49, 11.414, 12.001



61, 17.502, 12.553



52, 9.268, 60.009



27, 3.177, 10.926



27, 59.682, 33.860



0, 1.435, 10.250





# Inverse Universe

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



49, 11.414, 12.001



61, 17.502, 12.553



52, 8.497, 244.152



27, 3.177, 10.926



27, 59.682, 33.860



0, 1.435, 10.250



# Previews

## White Background



This preview shows how the CIELCh color 49, 11.415, 11.995 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, 11.415, 11.995 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

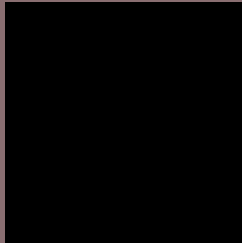
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 11.415, 11.995

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 11.415, 11.995.



This preview shows how white text looks on a background with the CIELCh color 49, 11.415, 11.995.

# 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, 11.415, 11.995

### Protanopia

49, 1.217, 19.240

### Deuteranopia

49, 6.686, 25.118



**Tritanopia**  
49, 12.649, 356.472



# Trichromacy



**Original Color**  
49, 11.415, 11.995

**Protanomaly**  
49, 4.555, 12.494

**Deuteranomaly**  
49, 8.353, 20.349

**Tritanomaly**  
49, 12.277, 1.526

# Monochromacy



**Original Color**  
49, 11.415, 11.995

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
49, 4.137, 11.689

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 11.415, 11.995 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(137, 110, 113)` looks like.

```
.text, #text, p{  
    color:rgb(137, 110, 113)  
}
```

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(137, 110, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 110, 113) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 11.415, 11.995 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(137, 110, 113) }
```

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

```
.border{ border-color:rgb(137, 110, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 110, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 110, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 110, 113);  
box-shadow:4px 4px 4px 4px rgb(137, 110,  
113) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 11.415, 11.995 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 110, 113) }
```

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

```
.background{ background-color: rgb(137,  
110, 113) }
```

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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