

# Converting Colors

CIELCh(68, 4.445, 44.795)

Have a look what the booklet for  
CIELCh(68, 4.445, 44.795) contains.

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# **Color**

**CIELCh(68, 4.435, 49.219)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AEA4A0
RGB	174, 164, 160
RGB Percent	68%, 64%, 63%
CMY	0.3185, 0.3577, 0.3734
CMYK	0.00, 0.06, 0.08, 0.32
HSL	17°, 8%, 65%
HSV	17°, 8%, 68%
XYZ	36.9645, 37.9720, 38.5352
YIQ	166.5340, 7.2440, 0.8760

# Conversions

## Conversions Part 2

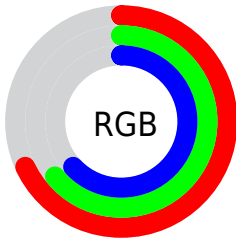
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 166, 160
Decimal	11445408
CIELab	68.00, 2.90, 3.36
CIElCh	68, 4.435, 49.219
Yxy	37.9720, 0.3258, 0.3346
Android (android.graphics.Color)	4289635488 (0xFFAEA4A0)
YUV	166.5340, -3.2213, 6.5477
Hunter-Lab	61.6215, -0.7618, 6.0578

# Details

The CIELCh color **68, 4.435, 49.219** is a light color, and the websafe version is hex **999999**. A complement of this color would be **69, 4.248, 230.462**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 4.508, 46.987**, and **48, 4.516, 42.684** is the 20% darker color. If you saturate the color by 10%, you get **64, 10.327, 48.771**, and if you desaturate by 10%, it is **72, 1.037, 230.384**.

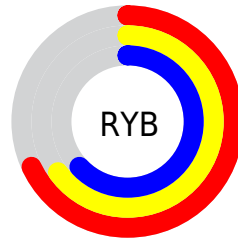
# Distribution



Red (68%)

Green (64%)

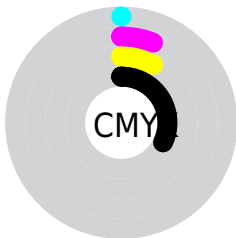
Blue (63%)



Red (68%)

Yellow (65%)

Blue (63%)

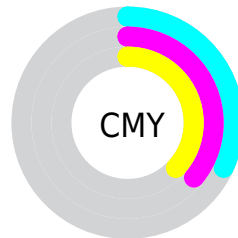


Cyan (0%)

Magenta (6%)

Yellow (8%)

Black (32%)



Cyan (32%)

Magenta (36%)

Yellow (37%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 4.435, 49.219 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 68, 4.435, 49.219 by changing the saturation by 10% instead.



 68, 4.435, 49.219       68, 4.435, 49.219

 100, 4.435, 49.219       58, 4.435, 49.219

 88, 4.435, 49.219       48, 4.435, 49.219

 98, 4.435, 49.219       38, 4.435, 49.219

 28, 4.435, 49.219

 18, 4.435, 49.219

 8, 4.435, 49.219

 0, 4.435, 49.219

 68, 4.435, 49.219       68, 4.435, 49.219

 64, 10.327, 48.771       72, 1.037, 230.384

61, 16.681, 48.330

76, 6.134, 230.642

57, 23.531, 47.979

79, 10.898,  
231.259

54, 30.892, 47.746

83, 15.369,  
231.908

51, 38.742, 47.644

48, 46.982, 47.658

87, 19.584,  
232.565

45, 55.364, 47.707

91, 21.827,  
221.910

42, 63.316, 47.552

40, 70.002, 46.914

94, 24.353,  
203.265

95, 25.725,  
197.831

# Harmonies

# Complementary

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



68, 4.435, 49.219



69, 4.248, 230.462

# Rectangle

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



68, 4.435, 49.219



68, 4.435, 99.219



68, 4.435, 229.219



68, 4.435, 279.219

# Sweetspot

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



68, 4.435, 49.246



89, 1.335, 49.278



67, 7.696, 334.114



48, 0.765, 49.260



96, 0.011, 296.813



48, 0.006, 296.813



# Same Dimension

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



68, 4.435, 49.246



86, 6.897, 49.150



70, 6.085, 98.451



35, 3.127, 49.190



35, 63.849, 47.274



3, 6.508, 43.391





# Inverse Universe

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



69, 4.248, 230.462



87, 6.523, 230.601



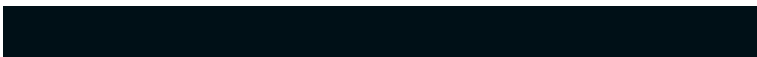
67, 6.142, 280.358



35, 2.973, 230.542



42, 32.123, 252.569



4, 6.428, 240.777



# Previews

## White Background



This preview shows how the CIELCh color 68, 4.435, 49.219 looks on a white background.

## Color Contrast Check

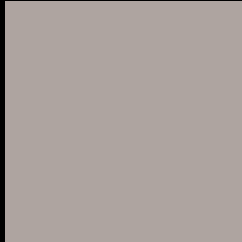
Large Text (above 18pt) WCAG AA × Fail

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 68, 4.435, 49.219 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

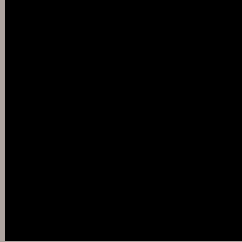
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

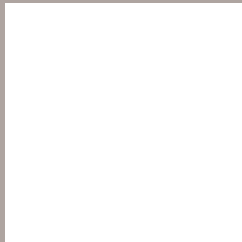
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 68, 4.435, 49.219

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 4.435, 49.219.



This preview shows how white text looks on a background with the CIELCh color 68, 4.435, 49.219.

# 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


68, 4.435, 49.219

### Protanopia

68, 3.336, 74.621

### Deuteranopia

68, 9.369, 20.210



**Tritanopia**  
68, 8.487, 329.045



# Trichromacy



**Original Color**  
68, 4.435, 49.219

**Protanomaly**  
68, 3.572, 69.516

**Deuteranomaly**  
68, 7.411, 24.239

**Tritanomaly**  
68, 5.650, 344.144

# Monochromacy



**Original Color**  
68, 4.435, 49.219

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 1.613, 39.121

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 4.435, 49.219 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(174, 164, 160)` looks like.

```
.text, #text, p{  
    color:rgb(174, 164, 160)  
}
```

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(174, 164, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 164, 160) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 4.435, 49.219 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(174, 164, 160) }
```

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

```
.border{ border-color:rgb(174, 164, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(174, 164, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 164, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 164, 160);  
box-shadow:4px 4px 4px 4px rgb(174, 164,  
160) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 4.435, 49.219 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 164, 160) }
```

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

```
.background{ background-color: rgb(174,  
164, 160) }
```

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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