

# Converting Colors

CIELCh(49, 16.474, 141.581)

Have a look what the booklet for  
CIELCh(49, 16.474, 141.581)  
contains.

<b>CIELCh(49, 16.278, 142.214)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(49, 16.278, 142.214)**

# Conversions

## Conversions Part 1

Format	Color
Hex	647A63
RGB	100, 122, 99
RGB Percent	39%, 48%, 39%
CMY	0.6071, 0.5208, 0.6110
CMYK	0.18, 0.00, 0.19, 0.52
HSL	117°, 10%, 43%
HSV	117°, 19%, 48%
XYZ	14.5232, 17.5941, 14.4839
YIQ	112.8000, -5.7290, -11.8170

# Conversions

## Conversions Part 2

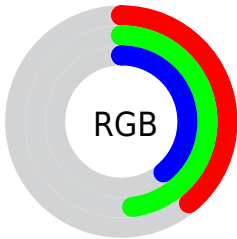
<b>Format</b>	<b>Color</b>
<b>RYB</b>	99, 122, 121
Decimal	6584931
CIELab	49.00, -12.86, 9.97
CIELCh	49, 16.278, 142.214
Yxy	17.5941, 0.3116, 0.3775
Android (android.graphics.Color)	4284775011 (0xFF647A63)
YUV	112.8000, -6.8034, -11.2256
Hunter-Lab	41.9453, -11.5999, 8.8885

# Details

The CIELCh color  $49, 16.278, 142.214$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $45, 16.316, 324.200$ , and the grayscale version is  $48, 0.006, 296.813$ .

A 20% lighter version of the original color is  $69, 15.902, 142.557$ , and  $29, 16.245, 141.549$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 24.944, 141.508$ , and if you desaturate by 10%, it is  $50, 7.596, 142.835$ .

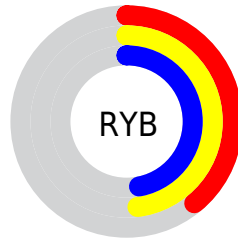
# Distribution



Red (39%)

Green (48%)

Blue (39%)



Red (39%)

Yellow (48%)

Blue (47%)

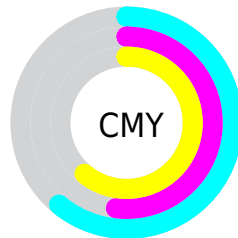


Cyan (18%)

Magenta (0%)

Yellow (19%)

Black (52%)



Cyan (61%)

Magenta (52%)


Yellow (61%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 16.278, 142.214 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, 16.278, 142.214 by changing the saturation by 10% instead.





 49, 16.278,  
142.214


 49, 16.278,  
142.214


 100, 16.278,  
142.214


 39, 16.278,  
142.214

 69, 16.278,  
142.214


 29, 16.278,  
142.214

 79, 16.278,  
142.214

 19, 16.278,  
142.214

 89, 16.278,  
142.214

 9, 16.278, 142.214

 99, 16.278,  
142.214

 0, 16.278, 142.214

 49, 16.278,

 49, 16.278,

142.214

142.214

■ 48, 24.944,  
141.508

■ 50, 7.596, 142.835

■ 47, 33.456,  
140.704

■ 51, 1.007, 323.162

■ 53, 9.460, 323.760

■ 46, 41.639,  
139.811

■ 54, 17.714,  
324.148

■ 46, 49.273,  
138.853

■ 56, 25.740,  
324.474

■ 45, 56.085,  
137.890

■ 58, 33.524,  
324.751

■ 45, 61.756,  
137.015

■ 59, 41.060,  
324.988

■ 44, 65.963,  
136.351

■ 61, 48.350,  
325.191

■ 44, 68.879,  
135.800

■ 63, 55.400,

■ 44, 69.215,  
135.721

325.365

# Harmonies

# Complementary

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



49, 16.278, 142.214



45, 16.316, 324.200

# Rectangle

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



49, 16.278, 142.214



49, 16.278, 192.214



49, 16.278, 322.214



49, 16.278, 12.214

# Sweetspot

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



49, 16.279, 142.214



64, 6.360, 142.993



50, 12.680, 106.289



33, 4.197, 142.964



83, 0.010, 296.813



34, 0.005, 296.813





# Same Dimension

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



49, 16.279, 142.214



62, 24.574, 141.893



49, 11.891, 159.561



25, 4.853, 142.820



45, 70.336, 135.728



87, 118.669, 135.894



# Inverse Universe

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



45, 16.316, 324.200



56, 24.632, 324.434



45, 12.103, 342.520



24, 4.864, 323.704



28, 68.276, 326.579



58, 114.949, 326.492



# Previews

## White Background



This preview shows how the CIELCh color 49, 16.278, 142.214 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 CIELCh color 49, 16.278, 142.214 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, 16.278, 142.214

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 16.278, 142.214.



This preview shows how white text looks on a background with the CIELCh color 49, 16.278, 142.214.

# 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, 16.278, 142.214

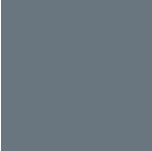
### Protanopia

49, 12.067, 94.057

### Deuteranopia

49, 11.187, 55.099





**Tritanopia**  
49, 7.558, 250.310

# Trichromacy



**Original Color**  
49, 16.278, 142.214

**Protanomaly**  
49, 12.313, 114.503

**Deuteranomaly**  
49, 9.588, 96.049

**Tritanomaly**  
49, 6.772, 188.691

# Monochromacy



**Original Color**  
49, 16.278, 142.214

**Achromatopsia**  
48, 0.006, 296.813

**Achromatomaly**  
48, 5.758, 144.095

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 16.278, 142.214 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(100, 122, 99)` looks like.

```
.text, #text, p{  
    color:rgb(100, 122, 99)  
}
```

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(100, 122, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 122, 99) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 16.278, 142.214 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(100, 122, 99) }
```

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

```
.border{ border-color:rgb(100, 122, 99) }
```

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

Here you see how a box with a 4 pixel rgb(100, 122, 99) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 122, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 122, 99);  
box-shadow:4px 4px 4px 4px rgb(100, 122,  
99) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 16.278, 142.214 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 122, 99) }
```

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

```
.background{ background-color: rgb(100,  
122, 99) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor