

# Converting Colors

CIELCh(49, 12.408, 349.743)

Have a look what the booklet for  
CIELCh(49, 12.408, 349.743)  
contains.

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**Color**

**CIELCh(49, 12.408, 349.743)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	876D78
RGB	135, 109, 120
RGB Percent	53%, 43%, 47%
CMY	0.4687, 0.5707, 0.5276
CMYK	0.00, 0.19, 0.11, 0.47
HSL	335°, 11%, 48%
HSV	335°, 19%, 53%
XYZ	19.0056, 17.5941, 20.3125
YIQ	118.0280, 11.9650, 8.9330

# Conversions

## Conversions Part 2

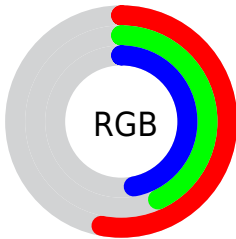
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 109, 120
Decimal	8875384
CIE Lab	49.00, 12.21, -2.21
CIE LCh	49, 12.408, 349.743
Yxy	17.5941, 0.3339, 0.3091
Android (android.graphics.Color)	4287065464 (0xFF876D78)
YUV	118.0280, 0.9722, 14.8844
Hunter-Lab	41.9453, 7.4748, 0.6499

# Details

The CIELCh color  $49, 12.408, 349.743$  is a dark color, and the websafe version is hex  $996666$ . A complement of this color would be  $54, 12.004, 166.346$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 11.944, 350.250$ , and  $29, 12.778, 348.406$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 19.051, 350.840$ , and if you desaturate by 10%, it is  $53, 5.868, 348.761$ .

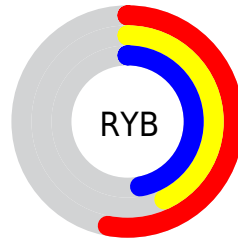
# Distribution



Red (53%)

Green (43%)

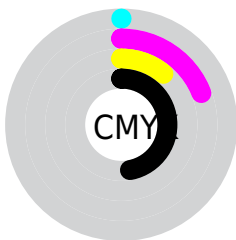
Blue (47%)



Red (53%)

Yellow (43%)

Blue (47%)

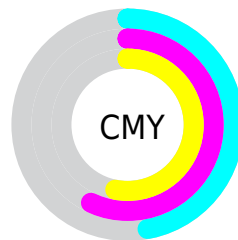


Cyan (0%)

Magenta (19%)

Yellow (11%)

Black (47%)



Cyan (47%)

Magenta (57%)

Yellow (53%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 12.408, 349.743 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, 12.408, 349.743 by changing the saturation by 10% instead.





 49, 12.408,  
349.743


 49, 12.408,  
349.743

 100, 12.408,  
349.743

 39, 12.408,  
349.743

 69, 12.408,  
349.743


 29, 12.408,  
349.743

 79, 12.408,  
349.743

 19, 12.408,  
349.743

 89, 12.408,  
349.743

 9, 12.408, 349.743

 99, 12.408,  
349.743

 0, 12.408, 349.743

 49, 12.408,

 49, 12.408,

349.743

349.743

45, 19.051,  
350.840

53, 5.868, 348.761

42, 25.682,  
352.095

57, 0.495, 168.619

61, 6.645, 167.238

38, 32.120,  
353.570

65, 12.570,  
166.512

35, 38.117,  
355.343

69, 18.268,  
165.859

33, 43.368,  
357.524

73, 23.750,  
165.261

31, 47.571, 0.252

77, 29.028,  
164.709

29, 50.526, 3.690

81, 34.116,  
164.198

28, 52.605, 7.721

28, 52.784, 8.036

85, 39.031,



# Harmonies

# Complementary

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



49, 12.408, 349.743



54, 12.004, 166.346

# Rectangle

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



49, 12.408, 349.743



49, 12.408, 39.743



49, 12.408, 169.743



49, 12.408, 219.743

# Sweetspot

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



49, 12.406, 349.746



69, 4.715, 348.460



48, 16.419, 312.172



36, 3.155, 348.514



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, 12.406, 349.746



61, 18.482, 350.200



49, 10.315, 26.170



27, 3.646, 348.757



27, 51.966, 7.924



0, 1.670, 348.020



# Inverse Universe

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



49, 12.406, 349.746



61, 18.482, 350.200



54, 9.107, 204.879



27, 3.646, 348.757



27, 51.966, 7.924

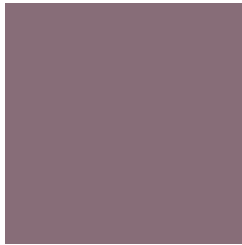


0, 1.670, 348.020



# Previews

## White Background



This preview shows how the CIELCh color 49, 12.408, 349.743 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, 12.408, 349.743 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

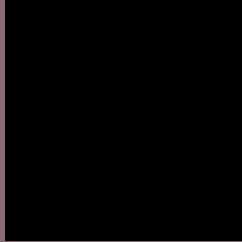
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 49, 12.408, 349.743

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 12.408, 349.743.



This preview shows how white text looks on a background with the CIELCh color 49, 12.408, 349.743.

# 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, 12.408, 349.743

### Protanopia

49, 4.702, 290.806

### Deuteranopia

49, 6.696, 342.392





**Tritanopia**  
49, 11.280, 356.351

# Trichromacy



**Original Color**  
49, 12.408, 349.743

**Protanomaly**  
49, 6.425, 324.797

**Deuteranomaly**  
49, 8.361, 346.337

**Tritanomaly**  
49, 11.509, 353.667

# Monochromacy



**Original Color**  
49, 12.408, 349.743

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
49, 4.351, 347.291

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 12.408, 349.743 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(135, 109, 120)` looks like.

```
.text, #text, p{  
    color:rgb(135, 109, 120)  
}
```

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(135, 109, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 109, 120) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 12.408, 349.743 is called "border". The border property can be set on classes, ids or directly on the HTML element.

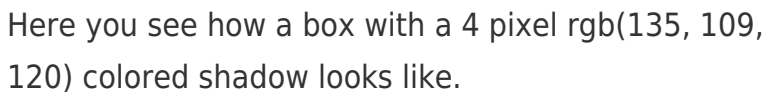
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(135, 109, 120) }
```

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

```
.border{ border-color:rgb(135, 109, 120) }
```

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



Here you see how a box with a 4 pixel `rgb(135, 109, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(135, 109, 120); -webkit-box-shadow:4px 4px 4px 4px rgb(135, 109, 120); box-shadow:4px 4px 4px 4px rgb(135, 109, 120) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 12.408, 349.743 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 109, 120) }
```

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

```
.background{ background-color: rgb(135,  
109, 120) }
```

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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