

# Converting Colors

CIELCh(49, 16.526, 326.541)

Have a look what the booklet for  
CIELCh(49, 16.526, 326.541)  
contains.

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**Color**

**CIELCh(49, 16.503, 326.535)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	856D84
RGB	133, 109, 132
RGB Percent	52%, 43%, 52%
CMY	0.4784, 0.5725, 0.4823
CMYK	0.00, 0.18, 0.01, 0.48
HSL	303°, 10%, 47%
HSV	303°, 18%, 52%
XYZ	19.3109, 17.5941, 24.2129
YIQ	118.7980, 6.9210, 12.2410

# Conversions

## Conversions Part 2

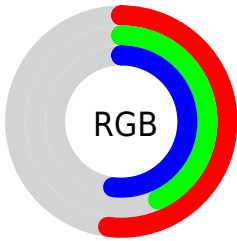
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 109, 132
Decimal	8744324
CIE <sub>Lab</sub>	49.00, 13.77, -9.10
CIE <sub>LCh</sub>	49, 16.503, 326.535
Yxy	17.5941, 0.3160, 0.2879
Android (android.graphics.Color)	4286934404 (0xFF856D84)
YUV	118.7980, 6.5086, 12.4552
Hunter-Lab	41.9453, 8.7742, -4.8634

# Details

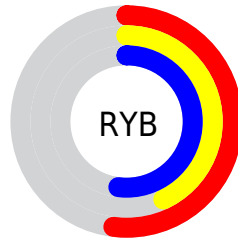
The CIELCh color  $[49, 16.503, 326.535]$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $[53, 16.483, 144.477]$ , and the grayscale version is  $[50, 0.007, 296.813]$ .

A 20% lighter version of the original color is  $[69, 16.158, 326.255]$ , and  $[29, 16.919, 325.753]$  is the 20% darker color. If you saturate the color by 10%, you get  $[46, 25.654, 327.077]$ , and if you desaturate by 10%, it is  $[53, 7.322, 325.980]$ .

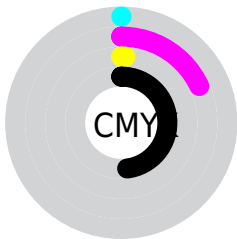
# Distribution



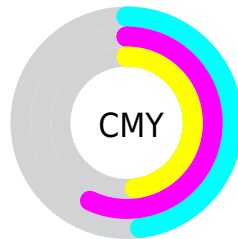
- Red (52%)
- Green (43%)
- Blue (52%)



- Red (52%)
- Yellow (43%)
- Blue (52%)



- Cyan (0%)
- Magenta (18%)
- Yellow (1%)
- Black (48%)




- Cyan (48%)
- Magenta (57%)
- Yellow (48%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 16.503, 326.535 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, 16.503, 326.535 by changing the saturation by 10% instead.





 49, 16.503,  
326.535


 49, 16.503,  
326.535


 100, 16.503,  
326.535


 39, 16.503,  
326.535

 69, 16.503,  
326.535


 29, 16.503,  
326.535

 79, 16.503,  
326.535

 19, 16.503,  
326.535


 89, 16.503,  
326.535

 9, 16.503, 326.535

 99, 16.503,  
326.535

 0, 16.503, 326.535

 49, 16.503,

 49, 16.503,

326.535

46, 25.654,  
327.077

42, 34.603,  
327.604

39, 43.108,  
328.104

37, 50.867,  
328.565

35, 57.542,  
328.977

33, 62.809,  
329.331

32, 66.435,  
329.624

31, 68.638,  
329.867

326.535

53, 7.322, 325.980

56, 1.760, 145.585

60, 10.666,  
144.969

64, 19.348,  
144.457

68, 27.783,  
143.972

72, 35.960,  
143.512

75, 43.881,  
143.078

79, 51.553,  
142.670

■ 31, 69.046,  
329.913

■ 83, 58.987,  
142.287

# Harmonies

# Complementary

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



49, 16.503, 326.535



53, 16.483, 144.477

# Rectangle

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



49, 16.503, 326.535



49, 16.503, 16.535



49, 16.503, 146.535



49, 16.503, 196.535

# Sweetspot

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



49, 16.501, 326.535



69, 5.644, 325.807



47, 14.244, 293.298



35, 3.836, 325.843



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



49, 16.501, 326.535



61, 25.006, 326.778



49, 11.774, 347.025



26, 5.125, 326.041



30, 67.935, 329.910



0, 1.221, 325.572



# Inverse Universe

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



49, 16.501, 326.535



61, 25.006, 326.778



53, 11.477, 163.964



26, 5.125, 326.041



30, 67.935, 329.910



0, 1.221, 325.572



# Previews

## White Background



This preview shows how the CIELCh color 49, 16.503, 326.535 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, 16.503, 326.535 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

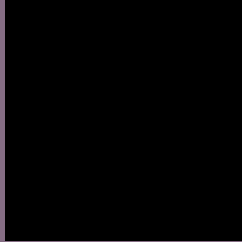
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 16.503, 326.535

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 16.503, 326.535.



This preview shows how white text looks on a background with the CIELCh color 49, 16.503, 326.535.

# 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, 16.503, 326.535

### Protanopia

49, 11.774, 286.246

### Deuteranopia

49, 10.396, 306.554





**Tritanopia**  
49, 9.707, 347.727

# Trichromacy



**Original Color**  
49, 16.503, 326.535

**Protanomaly**  
49, 13.266, 303.425

**Deuteranomaly**  
49, 12.325, 315.808

**Tritanomaly**  
49, 12.089, 338.154

# Monochromacy



**Original Color**  
49, 16.503, 326.535

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
49, 6.415, 324.794

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 16.503, 326.535 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(133, 109, 132)` looks like.

```
.text, #text, p{  
    color:rgb(133, 109, 132)  
}
```

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(133, 109, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 109, 132) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 16.503, 326.535 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(133, 109, 132) }
```

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

```
.border{ border-color:rgb(133, 109, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 109, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 109, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 109, 132);  
box-shadow:4px 4px 4px 4px rgb(133, 109,  
132) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 16.503, 326.535 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 109, 132) }
```

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

```
.background{ background-color: rgb(133,  
109, 132) }
```

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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