

# Converting Colors

CIELCh(49, 80.021, 319.037)

Have a look what the booklet for  
CIELCh(49, 80.021, 319.037)  
contains.

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**Color**

**CIELCh(49, 79.991, 318.998)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AA48CF
RGB	170, 72, 207
RGB Percent	67%, 28%, 81%
CMY	0.3346, 0.7189, 0.1895
CMYK	0.18, 0.65, 0.00, 0.19
HSL	284°, 58%, 55%
HSV	284°, 65%, 81%
XYZ	30.0286, 17.5941, 60.6405
YIQ	116.6920, 15.0730, 62.7610

# Conversions

## Conversions Part 2

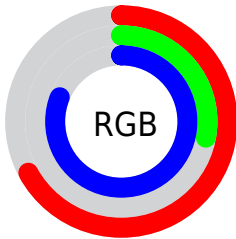
<b>Format</b>	<b>Color</b>
<b>RYB</b>	170, 72, 207
Decimal	11159759
CIELab	49.00, 60.37, -52.48
CIElCh	49, 79.991, 318.998
Yxy	17.5941, 0.2774, 0.1625
Android (android.graphics.Color)	4289349839 (0xFFAA48CF)
YUV	116.6920, 44.5218, 46.7511
Hunter-Lab	41.9453, 54.3838, -56.3542

# Details

The CIELCh color **49, 79.991, 318.998** is a dark color, and the websafe version is hex **9933CC**. The color can be described as middle muted purple. A complement of this color would be **75, 77.161, 133.160**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **69, 75.350, 320.609**, and **29, 80.071, 319.029** is the 20% darker color. If you saturate the color by 10%, you get **45, 89.225, 319.045**, and if you desaturate by 10%, it is **53, 69.079, 318.782**.

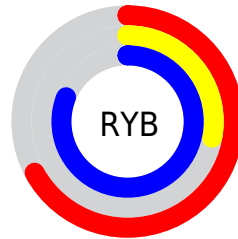
# Distribution



Red (67%)

Green (28%)

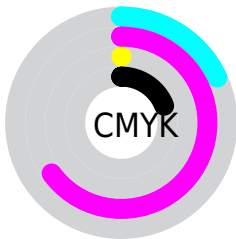
Blue (81%)



Red (67%)

Yellow (28%)

Blue (81%)

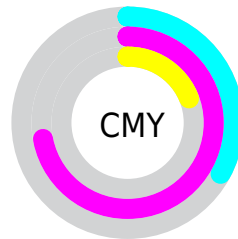


Cyan (18%)

Magenta (65%)

Yellow (0%)

Black (19%)



Cyan (33%)

Magenta (72%)

Yellow (19%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 79.991, 318.998 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, 79.991, 318.998 by changing the saturation by 10% instead.





 49, 79.991,  
318.998


 49, 79.991,  
318.998


 100, 79.991,  
318.998


 39, 79.991,  
318.998

 69, 79.991,  
318.998


 29, 79.991,  
318.998

 79, 79.991,  
318.998

 19, 79.991,  
318.998

 89, 79.991,  
318.998

 9, 79.991, 318.998

 99, 79.991,  
318.998

 0, 79.991, 318.998

 49, 79.991,

 49, 79.991,

318.998

45, 89.225,  
319.045

42, 96.162,  
318.863

40, 100.385,  
318.401

40, 101.768,  
318.127

318.998

53, 69.079,  
318.782

58, 57.106,  
318.454

63, 44.565,  
318.058


69, 31.816,  
317.628

74, 19.098,  
317.187

80, 6.563, 316.740

86, 5.702, 136.393

91, 17.648,  
135.986

 97, 27.629,  
135.199

# Harmonies

# Complementary

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



49, 79.991, 318.998



75, 77.161, 133.160

# Rectangle

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



49, 79.991, 318.998



49, 79.991, 8.998



49, 79.991, 138.998



49, 79.991, 188.998

# Sweetspot

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



49, 79.990, 318.998



87, 29.705, 317.405



48, 56.973, 288.052



44, 20.309, 317.530



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



49, 79.990, 318.998



54, 107.839, 319.009



53, 70.491, 335.747



41, 7.104, 316.927



32, 87.284, 318.256



4, 28.597, 317.048



# Inverse Universe

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



51, 56.621, 8.486



57, 77.273, 13.357



74, 71.891, 144.476



41, 4.752, 358.612



35, 64.917, 22.975

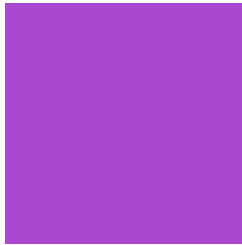


4, 20.405, 6.822



# Previews

## White Background



This preview shows how the CIELCh color 49, 79.991, 318.998 looks on a white background.

## Color Contrast Check

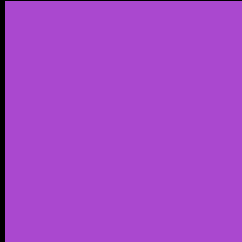
Large Text (above 18pt) WCAG AA ✓ Pass

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, 79.991, 318.998 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

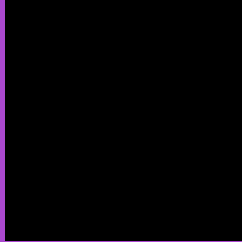
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 79.991, 318.998

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 79.991, 318.998.



This preview shows how white text looks on a background with the CIELCh color 49, 79.991, 318.998.

# 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







**Tritanopia**  
49, 22.861, 12.277

# Trichromacy



**Original Color**  
49, 79.991, 318.998



**Protanomaly**  
46, 75.929, 294.115



**Deuteranomaly**  
47, 58.876, 296.904



**Tritanomaly**  
48, 40.239, 333.988

# Monochromacy



**Original Color**  
49, 79.991, 318.998



**Achromatopsia**  
49, 0.007, 296.813



**Achromatomaly**  
48, 31.822, 318.198

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 79.991, 318.998 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(170, 72, 207)` looks like.

```
.text, #text, p{  
    color:rgb(170, 72, 207)  
}
```

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(170, 72, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 72, 207) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 79.991, 318.998 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(170, 72, 207) }
```

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

```
.border{ border-color:rgb(170, 72, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 72, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 72, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 72, 207);  
box-shadow:4px 4px 4px 4px rgb(170, 72,  
207) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 79.991, 318.998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 72, 207) }
```

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

```
.background{ background-color: rgb(170, 72,  
207) }
```

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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