

# Converting Colors

CIELCh(49, 52.142, 325.765)

Have a look what the booklet for  
CIELCh(49, 52.142, 325.765)  
contains.

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**Color**

**CIELCh(49, 52.145, 325.749)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A458A7
RGB	164, 88, 167
RGB Percent	64%, 35%, 65%
CMY	0.3578, 0.6557, 0.3460
CMYK	0.02, 0.47, 0.00, 0.35
HSL	298°, 31%, 50%
HSV	298°, 47%, 65%
XYZ	25.6887, 17.5941, 38.4925
YIQ	119.7300, 19.9370, 40.6810

# Conversions

## Conversions Part 2

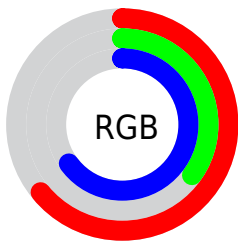
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 88, 167
Decimal	10770599
CIELab	49.00, 43.10, -29.35
CIELCh	49, 52.145, 325.749
Yxy	17.5941, 0.3141, 0.2152
Android (android.graphics.Color)	4288960679 (0xFFA458A7)
YUV	119.7300, 23.3041, 38.8248
Hunter-Lab	41.9453, 35.9153, -25.0478

# Details

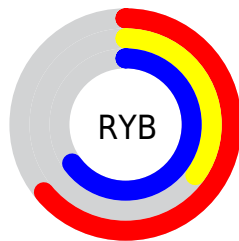
The CIELCh color  $49, 52.145, 325.749$  is a dark color, and the websafe version is hex  $993399$ . A complement of this color would be  $62, 52.176, 139.938$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 52.279, 326.072$ , and  $29, 52.272, 325.573$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 61.744, 326.137$ , and if you desaturate by 10%, it is  $53, 41.654, 325.302$ .

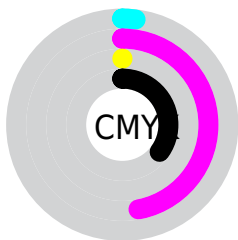
# Distribution



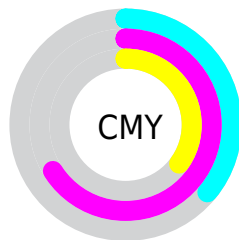
- Red (64%)
- Green (35%)
- Blue (65%)



- Red (64%)
- Yellow (35%)
- Blue (65%)



- Cyan (2%)
- Magenta (47%)
- Yellow (0%)
- Black (35%)



- Cyan (36%)
- Magenta (66%)
- Yellow (35%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 52.145, 325.749 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, 52.145, 325.749 by changing the saturation by 10% instead.





 49, 52.145,  
325.749


 49, 52.145,  
325.749

 100, 52.145,  
325.749


 39, 52.145,  
325.749

 69, 52.145,  
325.749


 29, 52.145,  
325.749

 79, 52.145,  
325.749

 19, 52.145,  
325.749

 89, 52.145,  
325.749

 9, 52.145, 325.749

 99, 52.145,  
325.749

 0, 52.145, 325.749

 49, 52.145,

 49, 52.145,

325.749

46, 61.744,  
326.137

43, 70.031,  
326.446

41, 76.588,  
326.658

39, 81.118,  
326.759

39, 83.681,  
326.754

38, 84.249,  
326.748

325.749

53, 41.654,  
325.302

57, 30.650,  
324.815

61, 19.426,  
324.304


65, 8.193, 323.775

70, 2.902, 143.367

74, 13.767,  
142.810

79, 24.350,  
142.325

83, 34.623,  
141.867

 88, 44.576,  
141.436

# Harmonies

# Complementary

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



49, 52.145, 325.749



62, 52.176, 139.938

# Rectangle

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



49, 52.145, 325.749



49, 52.145, 15.749



49, 52.145, 145.749



49, 52.145, 195.749

# Sweetspot

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



49, 52.143, 325.749



79, 19.365, 324.142



42, 45.242, 294.933



41, 13.488, 324.251



94, 0.011, 296.813



46, 0.006, 296.813





# Same Dimension

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



49, 52.143, 325.749



59, 75.795, 326.161



48, 39.148, 345.579



33, 6.354, 323.880



34, 77.134, 326.762



2, 11.475, 323.007



# Inverse Universe

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



47, 35.102, 21.689



56, 53.557, 24.074



63, 37.691, 156.371



33, 3.725, 16.823



30, 67.675, 37.829



1, 6.584, 16.680



# Previews

## White Background



This preview shows how the CIELCh color 49, 52.145, 325.749 looks on a white background.

## Color Contrast Check

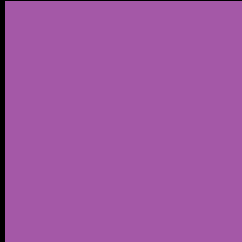
Large Text (above 18pt) WCAG AA ✓ Pass

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, 52.145, 325.749 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, 52.145, 325.749

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 52.145, 325.749.

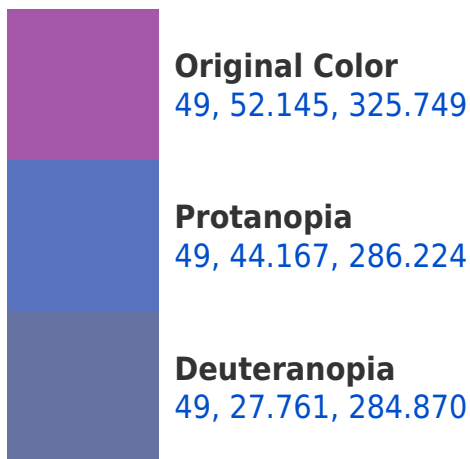


This preview shows how white text looks on a background with the CIELCh color 49, 52.145, 325.749.

# 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, 23.775, 11.419

# Trichromacy



**Original Color**  
49, 52.145, 325.749

**Protanomaly**  
48, 45.579, 300.466

**Deuteranomaly**  
48, 35.493, 305.004

**Tritanomaly**  
49, 31.533, 345.210

# Monochromacy



**Original Color**  
49, 52.145, 325.749

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
49, 20.210, 324.584

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 52.145, 325.749 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(164, 88, 167)` looks like.

```
.text, #text, p{  
    color:rgb(164, 88, 167)  
}
```

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(164, 88, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 88, 167) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 52.145, 325.749 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(164, 88, 167) }
```

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

```
.border{ border-color:rgb(164, 88, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 88, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(164, 88, 167); -webkit-box-shadow:4px 4px 4px 4px rgb(164, 88, 167); box-shadow:4px 4px 4px 4px rgb(164, 88, 167) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 52.145, 325.749 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 88, 167) }
```

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

```
.background{ background-color: rgb(164, 88,  
167) }
```

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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