

# Converting Colors

CIELCh(49, 38.920, 321.407)

Have a look what the booklet for  
CIELCh(49, 38.920, 321.407)  
contains.

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**Color**

**CIELCh(49, 38.680, 321.354)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	94639E
RGB	148, 99, 158
RGB Percent	58%, 39%, 62%
CMY	0.4208, 0.6129, 0.3816
CMYK	0.06, 0.37, 0.00, 0.38
HSL	290°, 23%, 50%
HSV	290°, 37%, 62%
XYZ	22.7363, 17.5941, 34.4064
YIQ	120.3770, 10.2650, 28.7370

# Conversions

## Conversions Part 2

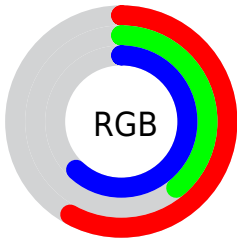
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	148, 99, 158
Decimal	9724830
CIE <sub>Lab</sub>	49.00, 30.21, -24.16
CIE <sub>LCh</sub>	49, 38.680, 321.354
Yxy	17.5941, 0.3042, 0.2354
Android (android.graphics.Color)	4287914910 (0xFF94639E)
YUV	120.3770, 18.5481, 24.2254
Hunter-Lab	41.9453, 23.3509, -19.2721

# Details

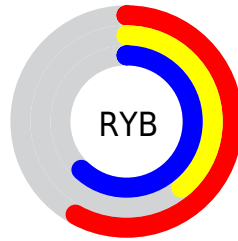
The CIELCh color  $49, 38.680, 321.354$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $60, 38.182, 137.620$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 38.554, 321.280$ , and  $29, 38.302, 321.449$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 48.690, 321.740$ , and if you desaturate by 10%, it is  $53, 28.344, 320.926$ .

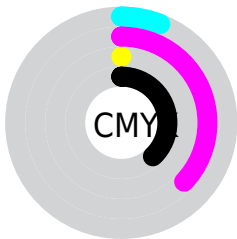
# Distribution



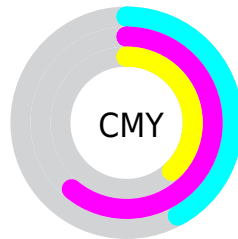
- Red (58%)
- Green (39%)
- Blue (62%)



- Red (58%)
- Yellow (39%)
- Blue (62%)



- Cyan (6%)
- Magenta (37%)
- Yellow (0%)
- Black (38%)




- Cyan (42%)
- Magenta (61%)
- Yellow (38%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 38.680, 321.354 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, 38.680, 321.354 by changing the saturation by 10% instead.




 49, 38.680,  
321.354

 49, 38.680,  
321.354


 100, 38.680,  
321.354

 39, 38.680,  
321.354

 69, 38.680,  
321.354

 29, 38.680,  
321.354

 79, 38.680,  
321.354

 19, 38.680,  
321.354

 89, 38.680,  
321.354

 9, 38.680, 321.354

 99, 38.680,  
321.354

 0, 38.680, 321.354

 49, 38.680,

 49, 38.680,

321.354

45, 48.690,  
321.740

42, 58.060,  
322.057

39, 66.382,  
322.270

36, 73.209,  
322.340

34, 78.148,  
322.232

33, 81.164,  
321.940

32, 81.865,  
321.859

321.354

53, 28.344,  
320.926

57, 17.920,  
320.477

62, 7.565, 320.016


66, 2.620, 139.671

71, 12.574,  
139.196

75, 22.265,  
138.792

80, 31.679,  
138.417

84, 40.814,  
138.070

 89, 49.676,  
137.751

# Harmonies

# Complementary

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



49, 38.680, 321.354



60, 38.182, 137.620

# Rectangle

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



49, 38.680, 321.354



49, 38.680, 11.354



49, 38.680, 141.354



49, 38.680, 191.354

# Sweetspot

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



49, 38.678, 321.354



76, 13.910, 320.194



47, 28.586, 286.796



39, 9.334, 320.251



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



49, 38.678, 321.354



59, 57.099, 321.684



49, 32.444, 337.742



31, 5.801, 320.103



29, 76.120, 321.911



1, 7.468, 318.829



# Inverse Universe

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



49, 25.611, 9.928



58, 38.558, 11.441



60, 32.023, 151.814



31, 3.619, 6.353



29, 60.889, 30.453

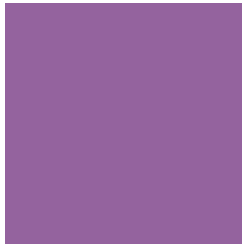


1, 4.607, 6.280



# Previews

## White Background



This preview shows how the CIELCh color 49, 38.680, 321.354 looks on a white background.

## Color Contrast Check

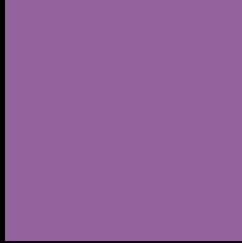
Large Text (above 18pt) WCAG AA ✓ Pass

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, 38.680, 321.354 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

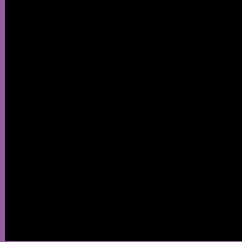
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 38.680, 321.354

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 38.680, 321.354.

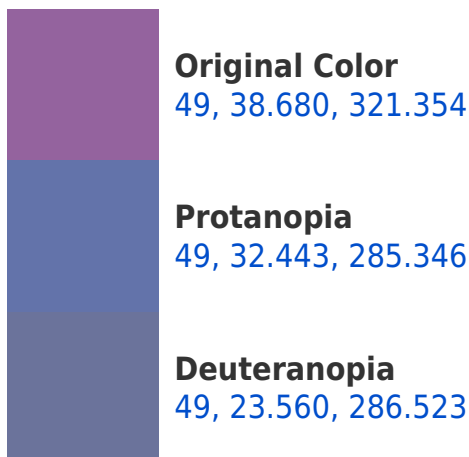


This preview shows how white text looks on a background with the CIELCh color 49, 38.680, 321.354.

# 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, 15.414, 1.526

# Trichromacy



**Original Color**  
49, 38.680, 321.354

**Protanomaly**  
49, 33.717, 298.937

**Deuteranomaly**  
49, 28.145, 303.011

**Tritanomaly**  
49, 22.313, 337.303

# Monochromacy



**Original Color**  
49, 38.680, 321.354

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 14.740, 320.054

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 38.680, 321.354 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(148, 99, 158)` looks like.

```
.text, #text, p{  
    color:rgb(148, 99, 158)  
}
```

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(148, 99, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 99, 158) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 38.680, 321.354 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(148, 99, 158) }
```

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

```
.border{ border-color:rgb(148, 99, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 99, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 99, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 99, 158);  
box-shadow:4px 4px 4px 4px rgb(148, 99,  
158) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 38.680, 321.354 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 99, 158) }
```

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

```
.background{ background-color: rgb(148, 99,  
158) }
```

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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