

# Converting Colors

CIELCh(49, 21.434, 319.901)

Have a look what the booklet for  
CIELCh(49, 21.434, 319.901)  
contains.

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**Color**

**CIELCh(49, 21.319, 320.170)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	866C8C
RGB	134, 108, 140
RGB Percent	53%, 42%, 55%
CMY	0.4757, 0.5776, 0.4521
CMYK	0.04, 0.23, 0.00, 0.45
HSL	289°, 13%, 49%
HSV	289°, 23%, 55%
XYZ	19.8288, 17.5941, 27.0474
YIQ	119.4220, 5.2240, 15.4640

# Conversions

## Conversions Part 2

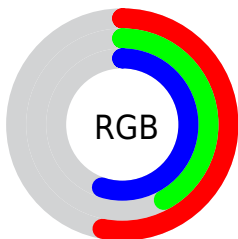
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	134, 108, 140
Decimal	8809612
CIE <sub>Lab</sub>	49.00, 16.37, -13.66
CIE <sub>LCh</sub>	49, 21.319, 320.170
Yxy	17.5941, 0.3076, 0.2729
Android (android.graphics.Color)	4286999692 (0xFF866C8C)
YUV	119.4220, 10.1450, 12.7849
Hunter-Lab	41.9453, 10.9783, -8.8700

# Details

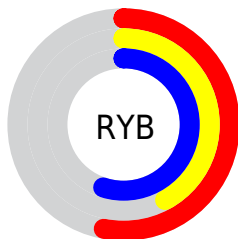
The CIELCh color  $49, 21.319, 320.170$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $55, 21.112, 138.056$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 21.168, 319.396$ , and  $29, 21.614, 320.170$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 30.711, 320.601$ , and if you desaturate by 10%, it is  $53, 11.930, 319.726$ .

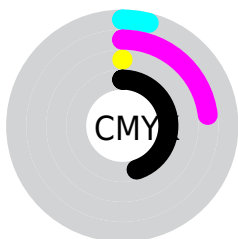
# Distribution



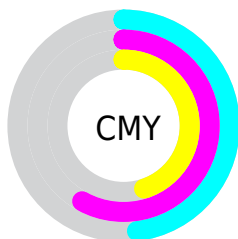
- Red (53%)
- Green (42%)
- Blue (55%)



- Red (53%)
- Yellow (42%)
- Blue (55%)



- Cyan (4%)
- Magenta (23%)
- Yellow (0%)
- Black (45%)




- Cyan (48%)
- Magenta (58%)
- Yellow (45%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 21.319, 320.170 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, 21.319, 320.170 by changing the saturation by 10% instead.





 49, 21.319,  
320.170


 49, 21.319,  
320.170


 100, 21.319,  
320.170


 39, 21.319,  
320.170

 69, 21.319,  
320.170


 29, 21.319,  
320.170


 79, 21.319,  
320.170

 19, 21.319,  
320.170

 89, 21.319,  
320.170

 9, 21.319, 320.170

 99, 21.319,  
320.170

 0, 21.319, 320.170

 49, 21.319,

 49, 21.319,

320.170

45, 30.711,  
320.601

42, 39.944,  
321.003

38, 48.775,  
321.351

35, 56.885,  
321.613

32, 63.886,  
321.753

30, 69.381,  
321.729

29, 73.071,  
321.507

28, 75.089,  
321.292

320.170

53, 11.930,  
319.726

57, 2.659, 319.245

61, 6.428, 138.913

65, 15.292,  
138.500

69, 23.914,  
138.121

73, 32.287,  
137.771

78, 40.414,  
137.448

82, 48.302,  
137.152

■ 86, 55.961,  
136.882

# Harmonies

# Complementary

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



49, 21.319, 320.170



55, 21.112, 138.056

# Rectangle

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



49, 21.319, 320.170



49, 21.319, 10.170



49, 21.319, 140.170



49, 21.319, 190.170

# Sweetspot

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



49, 21.317, 320.170



70, 7.965, 319.465



48, 15.187, 283.346



37, 5.218, 319.488



88, 0.010, 296.813



39, 0.006, 296.813





# Same Dimension

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



49, 21.317, 320.170



60, 31.121, 320.374



49, 18.239, 335.843



27, 5.144, 319.557



26, 72.291, 321.324



0, 2.369, 319.180



# Inverse Universe

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



49, 13.786, 6.473



60, 20.309, 7.068



55, 18.078, 152.597



27, 3.243, 4.950



27, 56.835, 28.730

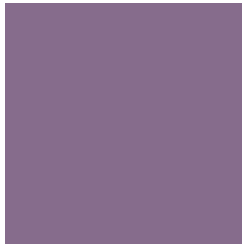


0, 1.471, 4.200



# Previews

## White Background



This preview shows how the CIELCh color 49, 21.319, 320.170 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, 21.319, 320.170 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, 21.319, 320.170

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 21.319, 320.170.



This preview shows how white text looks on a background with the CIELCh color 49, 21.319, 320.170.

# 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, 21.319, 320.170


### Protanopia

49, 17.675, 286.645

### Deuteranopia

49, 14.770, 296.426





**Tritanopia**  
49, 9.707, 347.727

# Trichromacy



**Original Color**  
49, 21.319, 320.170

**Protanomaly**  
49, 18.489, 300.541

**Deuteranomaly**  
49, 16.486, 306.759

**Tritanomaly**  
49, 13.307, 332.519

# Monochromacy



**Original Color**  
49, 21.319, 320.170

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 7.924, 317.663

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 21.319, 320.170 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(134, 108, 140)` looks like.

```
.text, #text, p{  
    color:rgb(134, 108, 140)  
}
```

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(134, 108, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(134, 108, 140) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 21.319, 320.170 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(134, 108, 140) }
```

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

```
.border{ border-color:rgb(134, 108, 140) }
```

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

Here you see how a box with a 4 pixel `rgb(134, 108, 140)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(134, 108, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(134, 108, 140);  
box-shadow:4px 4px 4px 4px rgb(134, 108,  
140) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 21.319, 320.170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(134, 108, 140) }
```

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

```
.background{ background-color: rgb(134,  
108, 140) }
```

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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