

# Converting Colors

CIELCh(49, 21.571, 324.711)

Have a look what the booklet for  
CIELCh(49, 21.571, 324.711)  
contains.

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**Color**

**CIELCh(49, 21.593, 324.713)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	896B8A
RGB	137, 107, 138
RGB Percent	54%, 42%, 54%
CMY	0.4637, 0.5813, 0.4598
CMYK	0.01, 0.22, 0.00, 0.46
HSL	298°, 13%, 48%
HSV	298°, 22%, 54%
XYZ	20.0814, 17.5941, 26.2920
YIQ	119.5040, 7.9290, 16.0010

# Conversions

## Conversions Part 2

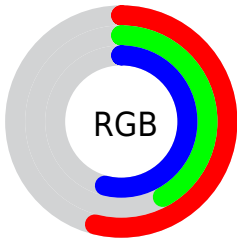
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	137, 107, 138
Decimal	9005962
CIE Lab	49.00, 17.63, -12.47
CIE LCh	49, 21.593, 324.713
Yxy	17.5941, 0.3139, 0.2750
Android (android.graphics.Color)	4287196042 (0xFF896B8A)
YUV	119.5040, 9.1185, 15.3440
Hunter-Lab	41.9453, 12.0531, -7.8023

# Details

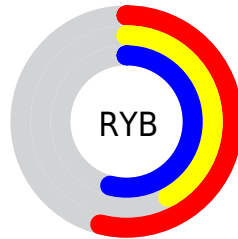
The CIELCh color  $49, 21.593, 324.713$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $54, 21.551, 142.229$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $69, 21.172, 325.341$ , and  $29, 21.842, 325.090$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 31.142, 325.210$ , and if you desaturate by 10%, it is  $53, 11.953, 324.199$ .

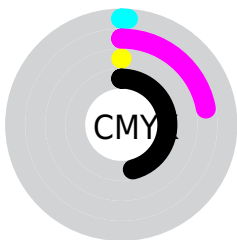
# Distribution



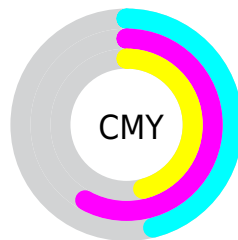
- Red (54%)
- Green (42%)
- Blue (54%)



- Red (54%)
- Yellow (42%)
- Blue (54%)



- Cyan (1%)
- Magenta (22%)
- Yellow (0%)
- Black (46%)




- Cyan (46%)
- Magenta (58%)
- Yellow (46%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 21.593, 324.713 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, 21.593, 324.713 by changing the saturation by 10% instead.





 49, 21.593,  
324.713


 49, 21.593,  
324.713


 100, 21.593,  
324.713


 39, 21.593,  
324.713

 69, 21.593,  
324.713


 29, 21.593,  
324.713

 79, 21.593,  
324.713

 19, 21.593,  
324.713

 89, 21.593,  
324.713

 9, 21.593, 324.713

 99, 21.593,  
324.713

 0, 21.593, 324.713

 49, 21.593,

 49, 21.593,

324.713

46, 31.142,  
325.210

42, 40.397,  
325.677

39, 49.079,  
326.098

37, 56.856,  
326.455

35, 63.369,  
326.729

33, 68.307,  
326.905

32, 71.493,  
326.976

31, 73.221,  
326.990

324.713

53, 11.953,  
324.199

56, 2.373, 323.626

60, 7.048, 143.233

64, 16.252,  
142.733

68, 25.203,  
142.264

72, 33.888,  
141.821

76, 42.304,  
141.404

80, 50.454,  
141.013

■ 84, 58.349,  
140.649

# Harmonies

# Complementary

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



49, 21.593, 324.713



54, 21.551, 142.229

# Rectangle

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



49, 21.593, 324.713



49, 21.593, 14.713



49, 21.593, 144.713



49, 21.593, 194.713

# Sweetspot

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



49, 21.591, 324.713



69, 8.249, 323.915



46, 17.788, 291.368



36, 5.340, 323.940



87, 0.010, 296.813



38, 0.005, 296.813





# Same Dimension

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



49, 21.591, 324.713



60, 32.019, 324.969



49, 15.821, 343.749



27, 5.386, 324.023



30, 71.221, 326.995



0, 2.486, 323.576



# Inverse Universe

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



48, 13.171, 18.479



59, 19.883, 19.034



55, 15.461, 160.024



27, 3.149, 17.264



27, 62.127, 37.376

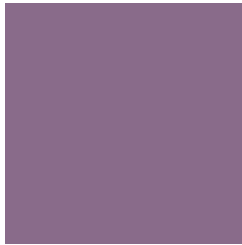


0, 1.417, 16.716



# Previews

## White Background



This preview shows how the CIELCh color 49, 21.593, 324.713 looks on a white background.

## Color Contrast Check

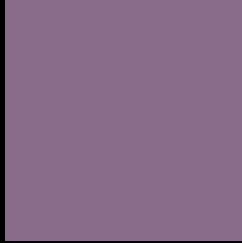
Large Text (above 18pt) WCAG AA ✓ Pass

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, 21.593, 324.713 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, 21.593, 324.713

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 21.593, 324.713.



This preview shows how white text looks on a background with the CIELCh color 49, 21.593, 324.713.

# 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, 21.593, 324.713

### Protanopia

49, 17.093, 286.350

### Deuteranopia

49, 13.057, 298.500





**Tritanopia**  
49, 11.142, 352.623

# Trichromacy



**Original Color**  
49, 21.593, 324.713

**Protanomaly**  
49, 17.968, 301.938

**Deuteranomaly**  
49, 16.278, 311.218

**Tritanomaly**  
49, 14.426, 337.568

# Monochromacy



**Original Color**  
49, 21.593, 324.713

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 7.609, 322.357

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 21.593, 324.713 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(137, 107, 138)` looks like.

```
.text, #text, p{  
    color:rgb(137, 107, 138)  
}
```

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(137, 107, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 107, 138) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 21.593, 324.713 is called "border". The border property can be set on classes, ids or directly on the HTML element.

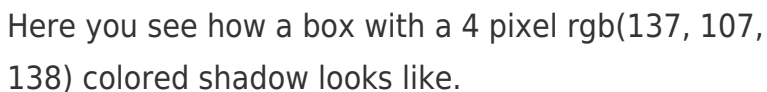
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(137, 107, 138) }
```

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

```
.border{ border-color:rgb(137, 107, 138) }
```

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



Here you see how a box with a 4 pixel `rgb(137, 107, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(137, 107, 138); -webkit-box-shadow:4px 4px 4px 4px rgb(137, 107, 138); box-shadow:4px 4px 4px 4px rgb(137, 107, 138) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 21.593, 324.713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 107, 138) }
```

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

```
.background{ background-color: rgb(137,  
107, 138) }
```

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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