

# Converting Colors

CIELCh(50, 21.081, 348.345)

Have a look what the booklet for  
CIELCh(50, 21.081, 348.345)  
contains.

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**Color**

**CIELCh(50, 21.450, 347.599)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	966A7F
RGB	150, 106, 127
RGB Percent	59%, 42%, 50%
CMY	0.4106, 0.5832, 0.5008
CMYK	0.00, 0.29, 0.15, 0.41
HSL	331°, 17%, 50%
HSV	331°, 29%, 59%
XYZ	21.6657, 18.4187, 22.5902
YIQ	121.5500, 19.4830, 15.8590

# Conversions

## Conversions Part 2

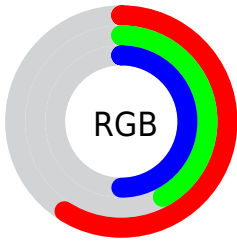
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	150, 106, 127
Decimal	9857663
CIE <sub>Lab</sub>	50.00, 20.95, -4.61
CIE <sub>LCh</sub>	50, 21.450, 347.599
Yxy	18.4187, 0.3457, 0.2939
Android (android.graphics.Color)	4288047743 (0xFF966A7F)
YUV	121.5500, 2.6869, 24.9507
Hunter-Lab	42.9170, 15.0073, -1.1666

# Details

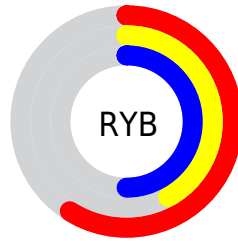
The CIELCh color  $50, 21.450, 347.599$  is a dark color, and the websafe version is hex  $996666$ . A complement of this color would be  $59, 20.617, 162.236$ , and the grayscale version is  $51, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 21.424, 347.509$ , and  $30, 21.347, 347.390$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 28.816, 348.779$ , and if you desaturate by 10%, it is  $54, 14.019, 346.563$ .

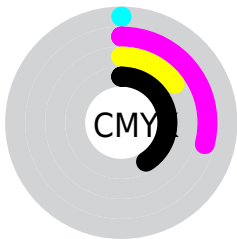
# Distribution



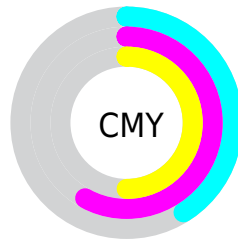
- Red (59%)
- Green (42%)
- Blue (50%)



- Red (59%)
- Yellow (42%)
- Blue (50%)



- Cyan (0%)
- Magenta (29%)
- Yellow (15%)
- Black (41%)




- Cyan (41%)
- Magenta (58%)
- Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 21.450, 347.599 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 50, 21.450, 347.599 by changing the saturation by 10% instead.





 50, 21.450,  
347.599


 50, 21.450,  
347.599


 100, 21.450,  
347.599


 40, 21.450,  
347.599


 70, 21.450,  
347.599

 30, 21.450,  
347.599


 80, 21.450,  
347.599


 20, 21.450,  
347.599

 90, 21.450,  
347.599

 10, 21.450,  
347.599

 0, 21.450, 347.599

 50, 21.450,  
347.599

 50, 21.450,  
347.599

46, 28.816,  
348.779

54, 14.019,  
346.563

43, 35.910,  
350.149

58, 6.674, 345.621

39, 42.436,  
351.781

63, 0.501, 165.514

67, 7.458, 164.139

37, 48.042,  
353.772

71, 14.177,  
163.428

34, 52.378,  
356.253

76, 20.654,  
162.786

33, 55.214,  
359.380

80, 26.897,  
162.195

32, 56.891, 3.118

84, 32.917,  
161.648

32, 57.017, 3.385

89, 38.729,  
161.138

# Harmonies

# Complementary

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



50, 21.450, 347.599



59, 20.617, 162.236

# Rectangle

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



50, 21.450, 347.599



50, 21.450, 37.599



50, 21.450, 167.599



50, 21.450, 217.599

# Sweetspot

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



50, 21.448, 347.601



75, 8.043, 345.612



49, 27.326, 311.003



39, 5.643, 345.737



90, 0.011, 296.813



42, 0.006, 296.813



# Same Dimension

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



50, 21.448, 347.601



61, 31.931, 348.340



50, 18.656, 22.969



29, 4.007, 345.612



29, 53.517, 3.003



1, 3.464, 344.896





# Inverse Universe

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



50, 21.448, 347.601



61, 31.931, 348.340



59, 15.336, 199.581



29, 4.007, 345.612



29, 53.517, 3.003

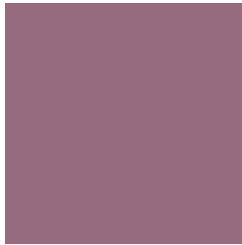


1, 3.464, 344.896



# Previews

## White Background



This preview shows how the CIELCh color 50, 21.450, 347.599 looks on a white background.

## Color Contrast Check

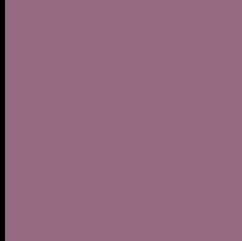
Large Text (above 18pt) WCAG AA ✓ Pass

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 50, 21.450, 347.599 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

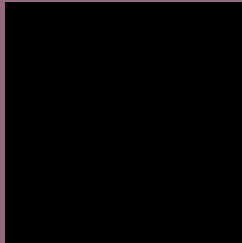
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 50, 21.450, 347.599

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 21.450, 347.599.



This preview shows how white text looks on a background with the CIELCh color 50, 21.450, 347.599.

# 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


50, 21.450, 347.599

### Protanopia

50, 9.953, 289.285

### Deuteranopia

50, 7.588, 329.907



**Tritanopia**  
50, 17.689, 6.510



# Trichromacy



**Original Color**  
50, 21.450, 347.599

**Protanomaly**  
50, 12.120, 320.383

**Deuteranomaly**  
50, 12.655, 340.751

**Tritanomaly**  
50, 18.814, 358.260

# Monochromacy



**Original Color**  
50, 21.450, 347.599

**Achromatopsia**  
51, 0.007, 296.813

**Achromatomaly**  
51, 7.979, 344.600

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 21.450, 347.599 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(150, 106, 127)` looks like.

```
.text, #text, p{  
    color:rgb(150, 106, 127)  
}
```

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(150, 106, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 106, 127) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 21.450, 347.599 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(150, 106, 127) }
```

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

```
.border{ border-color:rgb(150, 106, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 106, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 106, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 106, 127);  
box-shadow:4px 4px 4px 4px rgb(150, 106,  
127) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 21.450, 347.599 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 106, 127) }
```

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

```
.background{ background-color: rgb(150,  
106, 127) }
```

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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