

# Converting Colors

CIELCh(50, 16.904, 317.918)

Have a look what the booklet for  
CIELCh(50, 16.904, 317.918)  
contains.

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# Color

**CIELCh(50, 17.134, 318.668)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	84708A
RGB	132, 112, 138
RGB Percent	52%, 44%, 54%
CMY	0.4813, 0.5597, 0.4577
CMYK	0.04, 0.19, 0.00, 0.46
HSL	286°, 10%, 49%
HSV	286°, 19%, 54%
XYZ	19.9906, 18.4187, 26.6522
YIQ	120.9440, 3.5740, 12.3260

# Conversions

## Conversions Part 2

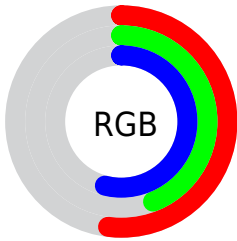
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	132, 112, 138
Decimal	8679562
CIE <sub>Lab</sub>	50.00, 12.87, -11.32
CIE <sub>LCh</sub>	50, 17.134, 318.668
Yxy	18.4187, 0.3073, 0.2831
Android (android.graphics.Color)	4286869642 (0xFF84708A)
YUV	120.9440, 8.4086, 9.6961
Hunter-Lab	42.9170, 8.0402, -6.7783

# Details

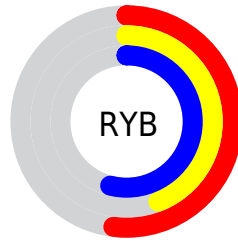
The CIELCh color  $50, 17.134, 318.668$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $55, 16.958, 137.026$ , and the grayscale version is  $51, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 16.742, 318.743$ , and  $30, 17.124, 318.375$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 26.387, 319.097$ , and if you desaturate by 10%, it is  $54, 7.957, 318.232$ .

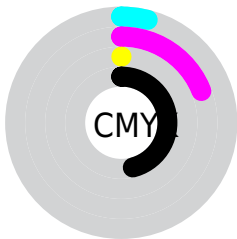
# Distribution



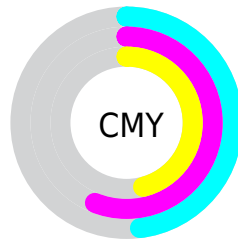
- Red (52%)
- Green (44%)
- Blue (54%)



- Red (52%)
- Yellow (44%)
- Blue (54%)



- Cyan (4%)
- Magenta (19%)
- Yellow (0%)
- Black (46%)



- Cyan (48%)
- Magenta (56%)
- Yellow (46%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 17.134, 318.668 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, 17.134, 318.668 by changing the saturation by 10% instead.




 50, 17.134,  
318.668

 50, 17.134,  
318.668

 100, 17.134,  
318.668

 40, 17.134,  
318.668

 70, 17.134,  
318.668

 30, 17.134,  
318.668

 80, 17.134,  
318.668

 20, 17.134,  
318.668

 90, 17.134,  
318.668

 10, 17.134,  
318.668

 0, 17.134, 318.668

 50, 17.134,  
318.668

 50, 17.134,  
318.668

46, 26.387,  
319.097

54, 7.957, 318.232

42, 35.593,  
319.507

58, 1.057, 137.981

62, 9.865, 137.457

39, 44.556,  
319.877

66, 18.441,  
137.079

35, 53.003,  
320.174

70, 26.776,  
136.732

33, 60.578,  
320.361

75, 34.869,  
136.414

30, 66.867,  
320.389

79, 42.726,  
136.122

28, 71.488,  
320.214

83, 50.356,  
135.858

27, 74.623,  
319.862

87, 57.768,  
135.618

27, 74.996,

319.823

# Harmonies

# Complementary

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



50, 17.134, 318.668



55, 16.958, 137.026

# Rectangle

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



50, 17.134, 318.668



50, 17.134, 8.668



50, 17.134, 138.668



50, 17.134, 188.668

# Sweetspot

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



50, 17.132, 318.668



70, 6.661, 318.111



50, 11.833, 280.728



36, 4.403, 318.135



87, 0.010, 296.813



38, 0.005, 296.813





# Same Dimension

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



50, 17.132, 318.668



61, 25.884, 318.870



50, 15.187, 334.185



27, 5.082, 318.247



25, 72.741, 319.854



0, 2.340, 317.881



# Inverse Universe

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



50, 11.268, 2.752



61, 17.144, 3.309



55, 15.094, 151.664



27, 3.295, 1.702



27, 55.377, 25.345



0, 1.498, 0.932



# Previews

## White Background



This preview shows how the CIELCh color 50, 17.134, 318.668 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 50, 17.134, 318.668 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

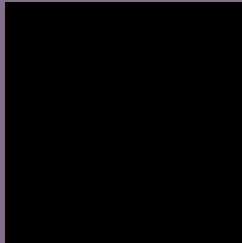
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 50, 17.134, 318.668

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 17.134, 318.668.



This preview shows how white text looks on a background with the CIELCh color 50, 17.134, 318.668.

# 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, 17.134, 318.668

### Protanopia

50, 14.090, 286.004

### Deuteranopia

50, 13.133, 301.774





**Tritanopia**  
50, 8.027, 339.443

# Trichromacy



**Original Color**  
50, 17.134, 318.668

**Protanomaly**  
50, 14.807, 299.292

**Deuteranomaly**  
50, 14.175, 309.062

**Tritanomaly**  
50, 11.102, 328.526

# Monochromacy



**Original Color**  
50, 17.134, 318.668

**Achromatopsia**  
51, 0.007, 296.813

**Achromatomaly**  
51, 5.976, 318.412

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 17.134, 318.668 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(132, 112, 138)` looks like.

```
.text, #text, p{  
    color:rgb(132, 112, 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(132, 112, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 112, 138) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 17.134, 318.668 is called "border". The border property can be set on classes, ids or directly on the HTML element.

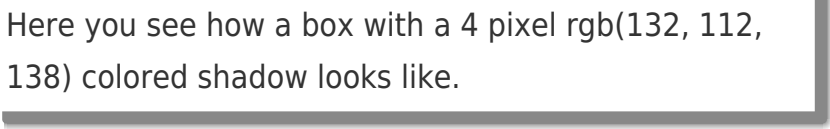
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(132, 112, 138) }
```

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

```
.border{ border-color:rgb(132, 112, 138) }
```

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



Here you see how a box with a 4 pixel `rgb(132, 112, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(132, 112, 138); -webkit-box-shadow:4px 4px 4px 4px rgb(132, 112, 138); box-shadow:4px 4px 4px 4px rgb(132, 112, 138) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 17.134, 318.668 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 112, 138) }
```

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

```
.background{ background-color: rgb(132,  
112, 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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