

# Converting Colors

CIELCh(59, 8.840, 16.625)

Have a look what the booklet for  
CIELCh(59, 8.840, 16.625) contains.

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# Color

**CIELCh(59, 8.840, 16.625)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9F898A
RGB	159, 137, 138
RGB Percent	62%, 54%, 54%
CMY	0.3771, 0.4634, 0.4595
CMYK	0.00, 0.14, 0.13, 0.38
HSL	357°, 10%, 58%
HSV	357°, 14%, 62%
XYZ	27.7617, 27.0277, 27.7354
YIQ	143.6920, 12.7910, 4.9750

# Conversions

## Conversions Part 2

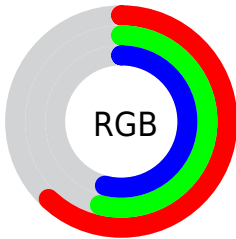
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	159, 137, 138
Decimal	10455434
CIE Lab	59.00, 8.47, 2.53
CIE LCh	59, 8.840, 16.625
Yxy	27.0277, 0.3364, 0.3275
Android (android.graphics.Color)	4288645514 (0xFF9F898A)
YUV	143.6920, -2.8062, 13.4251
Hunter-Lab	51.9882, 4.3398, 4.7609

# Details

The CIELCh color  $59, 8.840, 16.625$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $64, 8.163, 194.802$ , and the grayscale version is  $60, 0.008, 296.813$ .

A 20% lighter version of the original color is  $79, 9.046, 16.716$ , and  $39, 8.760, 16.657$  is the 20% darker color. If you saturate the color by 10%, you get  $54, 15.766, 17.636$ , and if you desaturate by 10%, it is  $64, 2.370, 15.708$ .

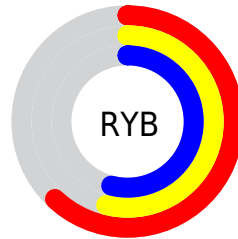
# Distribution



Red (62%)

Green (54%)

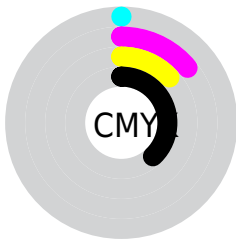
Blue (54%)



Red (62%)

Yellow (54%)

Blue (54%)

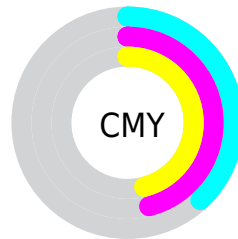


Cyan (0%)

Magenta (14%)

Yellow (13%)

Black (38%)



Cyan (38%)

Magenta (46%)

Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 59, 8.840, 16.625 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 59, 8.840, 16.625 by changing the saturation by 10% instead.



 59, 8.840, 16.625       59, 8.840, 16.625

 100, 8.840, 16.625       49, 8.840, 16.625


 79, 8.840, 16.625       39, 8.840, 16.625

 89, 8.840, 16.625       29, 8.840, 16.625

 99, 8.840, 16.625       19, 8.840, 16.625

 9, 8.840, 16.625

 0, 8.840, 16.625

 59, 8.840, 16.625       59, 8.840, 16.625

 54, 15.766, 17.636       64, 2.370, 15.708

 50, 23.134, 18.880       68, 3.653, 195.390

46, 30.872, 20.461

73, 9.258, 194.788

42, 38.846, 22.486

78, 14.486,  
194.330

39, 46.854, 25.067

83, 19.375,  
193.949

36, 54.635, 28.281

34, 61.888, 32.060

87, 23.964,  
193.625

33, 68.128, 35.976

92, 28.290,  
193.346

33, 71.319, 37.833

94, 29.690,  
197.589

# Harmonies

# Complementary

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



59, 8.840, 16.625



64, 8.163, 194.802

# Rectangle

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



59, 8.840, 16.625



59, 8.840, 66.625



59, 8.840, 196.625



59, 8.840, 246.625

# Sweetspot

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



59, 8.839, 16.635



81, 3.054, 15.736



60, 14.813, 323.783



43, 2.193, 15.815



92, 0.011, 296.813



44, 0.006, 296.813



# Same Dimension

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



59, 8.839, 16.635



73, 13.607, 16.961



62, 7.371, 68.225



31, 3.537, 16.226



29, 65.555, 37.338



1, 4.485, 15.829





# Inverse Universe

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



59, 8.839, 16.635



73, 13.607, 16.961



61, 7.046, 251.594



31, 3.537, 16.226



29, 65.555, 37.338

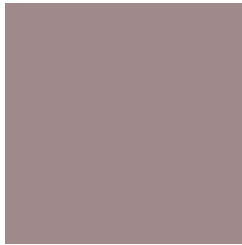


1, 4.485, 15.829



# Previews

## White Background



This preview shows how the CIELCh color 59, 8.840, 16.625 looks on a white background.

## Color Contrast Check

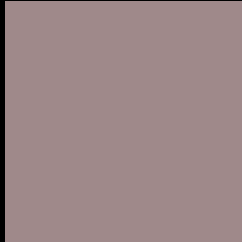
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIE LCh color 59, 8.840, 16.625 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

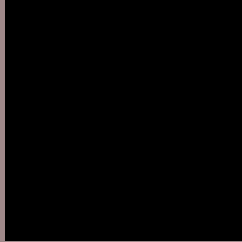
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 59, 8.840, 16.625**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 59, 8.840, 16.625.



This preview shows how white text looks on a background with the CIELCh color 59, 8.840, 16.625.

# 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

59, 8.840, 16.625

### Protanopia

59, 1.663, 39.151

### Deuteranopia

59, 8.024, 16.160



**Tritanopia**  
59, 11.006, 349.727



# Trichromacy



**Original Color**  
59, 8.840, 16.625

**Protanomaly**  
59, 4.359, 19.747

**Deuteranomaly**  
59, 8.432, 16.402

**Tritanomaly**  
59, 10.298, 357.954

# Monochromacy



**Original Color**  
59, 8.840, 16.625

**Achromatopsia**  
60, 0.008, 296.813

**Achromatomaly**  
59, 3.198, 9.437

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 59, 8.840, 16.625 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(159, 137, 138)` looks like.

```
.text, #text, p{  
    color:rgb(159, 137, 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(159, 137, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 137, 138) }
```

## Border

The CSS property to change the border of an element to CIELCh 59, 8.840, 16.625 is called "border". The border property can be set on classes, ids or directly on the HTML element.

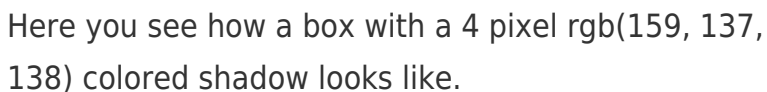
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(159, 137, 138) }
```

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

```
.border{ border-color:rgb(159, 137, 138) }
```

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



Here you see how a box with a 4 pixel `rgb(159, 137, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(159, 137, 138); -webkit-box-shadow:4px 4px 4px 4px rgb(159, 137, 138); box-shadow:4px 4px 4px 4px rgb(159, 137, 138) }
```

# Background

The CSS property to change the background color of an element to CIELCh 59, 8.840, 16.625 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 137, 138) }
```

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

```
.background{ background-color: rgb(159,  
137, 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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