

# Converting Colors

CIELCh(58, 13.397, 3.057)

Have a look what the booklet for  
CIELCh(58, 13.397, 3.057) contains.

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# Color

**CIELCh(58, 13.577, 1.466)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A3838B
RGB	163, 131, 139
RGB Percent	64%, 51%, 55%
CMY	0.3600, 0.4855, 0.4541
CMYK	0.00, 0.20, 0.15, 0.36
HSL	345°, 15%, 58%
HSV	345°, 20%, 64%
XYZ	27.9610, 25.9610, 28.0369
YIQ	141.4800, 16.5040, 9.2720

# Conversions

## Conversions Part 2

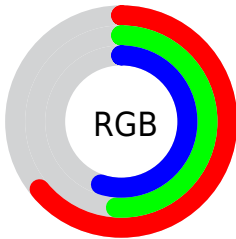
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	163, 131, 139
Decimal	10716043
CIE Lab	58.00, 13.57, 0.35
CIE LCh	58, 13.577, 1.466
Yxy	25.9610, 0.3412, 0.3168
Android (android.graphics.Color)	4288906123 (0xFFA3838B)
YUV	141.4800, -1.2226, 18.8730
Hunter-Lab	50.9519, 8.7899, 3.0414

# Details

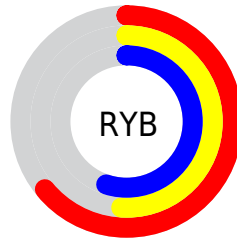
The CIELCh color  $58, 13.577, 1.466$  is a dark color, and the websafe version is hex `CC9999`. A complement of this color would be  $65, 12.706, 177.747$ , and the grayscale version is  $59, 0.008, 296.813$ .

A 20% lighter version of the original color is  $78, 13.482, 2.115$ , and  $38, 13.900, 1.055$  is the 20% darker color. If you saturate the color by 10%, you get  $54, 20.895, 2.751$ , and if you desaturate by 10%, it is  $63, 6.508, 0.359$ .

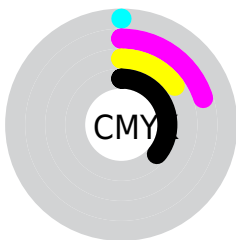
# Distribution



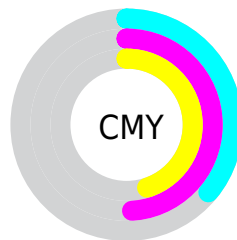
- Red (64%)
- Green (51%)
- Blue (55%)



- Red (64%)
- Yellow (51%)
- Blue (55%)



- Cyan (0%)
- Magenta (20%)
- Yellow (15%)
- Black (36%)



- Cyan (36%)
- Magenta (49%)
- Yellow (45%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 58, 13.577, 1.466 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 58, 13.577, 1.466 by changing the saturation by 10% instead.



 58, 13.577, 1.466       58, 13.577, 1.466

 100, 13.577, 1.466       48, 13.577, 1.466

 78, 13.577, 1.466       38, 13.577, 1.466

 88, 13.577, 1.466       28, 13.577, 1.466

 98, 13.577, 1.466       18, 13.577, 1.466

 8, 13.577, 1.466

 0, 13.577, 1.466

 58, 13.577, 1.466       58, 13.577, 1.466

 54, 20.895, 2.751       63, 6.508, 0.359

 49, 28.362, 4.280       67, 0.254, 181.171

45, 35.800, 6.147

72, 6.691, 178.742

42, 42.958, 8.471

77, 12.808,  
177.989

39, 49.536, 11.397

82, 18.621,  
177.331

37, 55.254, 15.081

35, 59.983, 19.622

86, 24.154,  
176.740

34, 64.077, 24.709

91, 29.430,  
176.205

34, 64.246, 24.896

94, 31.236,  
180.224

94, 29.129,  
191.844

# Harmonies

# Complementary

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



58, 13.577, 1.466



65, 12.706, 177.747

# Rectangle

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



58, 13.577, 1.466



58, 13.577, 51.466



58, 13.577, 181.466



58, 13.577, 231.466

# Sweetspot

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



58, 13.575, 1.471



81, 4.981, 359.980



58, 20.369, 318.117



43, 3.335, 0.048



93, 0.011, 296.813



45, 0.006, 296.813



# Same Dimension

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



58, 13.575, 1.471



71, 20.730, 2.063



60, 10.848, 44.630



32, 3.827, 0.322



30, 58.775, 24.286



1, 5.775, 1.257





# Inverse Universe

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



58, 13.575, 1.471



71, 20.730, 2.063



63, 9.622, 226.642



32, 3.827, 0.322



30, 58.775, 24.286

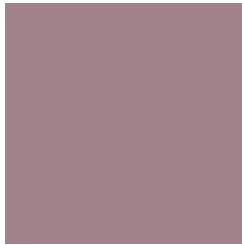


1, 5.775, 1.257



# Previews

## White Background



This preview shows how the CIELCh color 58, 13.577, 1.466 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 58, 13.577, 1.466 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

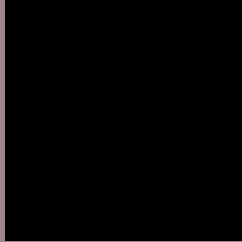
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 58, 13.577, 1.466**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 58, 13.577, 1.466.



This preview shows how white text looks on a background with the CIELCh color 58, 13.577, 1.466.

# 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

58, 13.577, 1.466

### Protanopia

58, 2.960, 305.644

### Deuteranopia

58, 7.375, 6.836



**Tritanopia**  
58, 13.935, 357.028



# Trichromacy



**Original Color**  
58, 13.577, 1.466

**Protanomaly**  
58, 6.159, 346.454

**Deuteranomaly**  
58, 9.473, 6.589

**Tritanomaly**  
58, 13.745, 359.217

# Monochromacy



**Original Color**  
58, 13.577, 1.466

**Achromatopsia**  
59, 0.008, 296.813

**Achromatomaly**  
59, 5.038, 0.174

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 13.577, 1.466 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(163, 131, 139)` looks like.

```
.text, #text, p{  
    color:rgb(163, 131, 139)  
}
```

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(163, 131, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 131, 139) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 13.577, 1.466 is called "border". The border property can be set on classes, ids or directly on the HTML element.

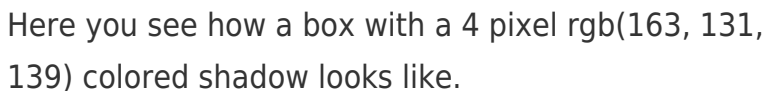
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(163, 131, 139) }
```

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

```
.border{ border-color:rgb(163, 131, 139) }
```

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



Here you see how a box with a 4 pixel `rgb(163, 131, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(163, 131, 139); -webkit-box-shadow:4px 4px 4px 4px rgb(163, 131, 139); box-shadow:4px 4px 4px 4px rgb(163, 131, 139) }
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 13.577, 1.466 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 131, 139) }
```

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

```
.background{ background-color: rgb(163,  
131, 139) }
```

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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