

# Converting Colors

CIELCh(59, 12.818, 163.106)

Have a look what the booklet for  
CIELCh(59, 12.818, 163.106)  
contains.

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# Color

**CIELCh(59, 12.802, 163.117)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	799487
RGB	121, 148, 135
RGB Percent	47%, 58%, 53%
CMY	0.5252, 0.4193, 0.4703
CMYK	0.18, 0.00, 0.09, 0.42
HSL	151°, 11%, 53%
HSV	151°, 18%, 58%
XYZ	22.8779, 27.0277, 26.9625
YIQ	138.4450, -11.9190, -9.7670

# Conversions

## Conversions Part 2

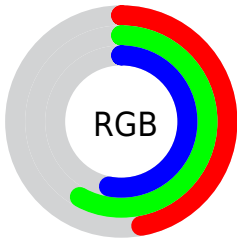
<b>Format</b>	<b>Color</b>
<b>RYB</b>	121, 139, 148
Decimal	7967879
CIELab	59.00, -12.25, 3.72
CIELCh	59, 12.802, 163.117
Yxy	27.0277, 0.2976, 0.3516
Android (android.graphics.Color)	4286157959 (0xFF799487)
YUV	138.4450, -1.6984, -15.2993
Hunter-Lab	51.9882, -12.4286, 5.6423

# Details

The CIELCh color  $59, 12.802, 163.117$  is a dark color, and the websafe version is hex  $669999$ . A complement of this color would be  $54, 13.119, 346.210$ , and the grayscale version is  $58, 0.007, 296.813$ .

A 20% lighter version of the original color is  $79, 12.716, 162.503$ , and  $39, 12.734, 162.568$  is the 20% darker color. If you saturate the color by 10%, you get  $58, 19.722, 162.115$ , and if you desaturate by 10%, it is  $60, 5.787, 164.039$ .

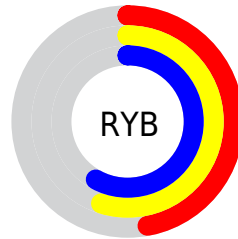
# Distribution



Red (47%)

Green (58%)

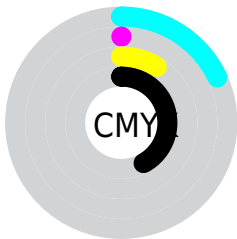
Blue (53%)



Red (47%)

Yellow (55%)

Blue (58%)

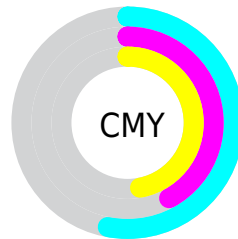


Cyan (18%)

Magenta (0%)

Yellow (9%)

Black (42%)



Cyan (53%)

Magenta (42%)


Yellow (47%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 59, 12.802, 163.117 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, 12.802, 163.117 by changing the saturation by 10% instead.





 59, 12.802,  
163.117


 59, 12.802,  
163.117


 100, 12.802,  
163.117


 49, 12.802,  
163.117


 79, 12.802,  
163.117

 39, 12.802,  
163.117

 89, 12.802,  
163.117

 29, 12.802,  
163.117

 99, 12.802,  
163.117

 19, 12.802,  
163.117

 9, 12.802, 163.117

 0, 12.802, 163.117

■ 59, 12.802,  
163.117

■ 59, 12.802,  
163.117

■ 58, 19.722,  
162.115

■ 60, 5.787, 164.039

■ 57, 26.444,  
161.005

■ 62, 1.244, 344.528

■ 63, 8.222, 345.497

■ 56, 32.859,  
159.759

■ 65, 15.099,  
346.202

■ 55, 38.853,  
158.354

■ 66, 21.836,  
346.846

■ 55, 44.324,  
156.768

■ 68, 28.412,  
347.445

■ 54, 49.192,  
154.983


■ 70, 34.810,  
348.006

■ 54, 53.420,  
152.996

■ 72, 41.025,  
348.535

■ 54, 57.101,

150.881

 74, 47.054,  
349.035

 54, 57.735,  
150.528

# Harmonies

# Complementary

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



59, 12.802, 163.117



54, 13.119, 346.210

# Rectangle

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



59, 12.802, 163.117



59, 12.802, 213.117



59, 12.802, 343.117



59, 12.802, 33.117

# Sweetspot

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



59, 12.803, 163.115



77, 4.325, 164.337



60, 16.204, 128.858



41, 2.975, 164.274



89, 0.011, 296.813



41, 0.006, 296.813





# Same Dimension

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



59, 12.803, 163.115



74, 18.998, 162.707



59, 9.793, 200.027



31, 3.966, 163.951



50, 54.577, 150.692



2, 3.474, 164.664



# Inverse Universe

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



54, 13.119, 346.210



66, 19.572, 346.624



53, 11.003, 21.933



29, 4.018, 345.367



29, 53.547, 2.595



1, 3.475, 344.654



# Previews

## White Background



This preview shows how the CIE LCh color 59, 12.802, 163.117 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 CIELCh color 59, 12.802, 163.117 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

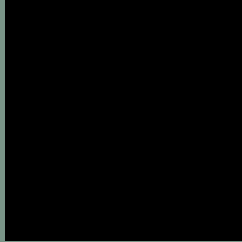
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 59, 12.802, 163.117**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 59, 12.802, 163.117.

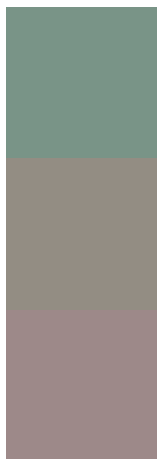


This preview shows how white text looks on a background with the CIELCh color 59, 12.802, 163.117.

# 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, 12.802, 163.117

**Protanopia**  
59, 6.131, 86.278

**Deuteranopia**  
59, 8.025, 20.173





**Tritanopia**  
59, 9.423, 240.508

# Trichromacy



**Original Color**  
59, 12.802, 163.117

**Protanomaly**  
59, 7.198, 128.726

**Deuteranomaly**  
59, 3.053, 86.905

**Tritanomaly**  
59, 8.213, 206.662

# Monochromacy



**Original Color**  
59, 12.802, 163.117

**Achromatopsia**  
58, 0.007, 296.813

**Achromatomaly**  
58, 4.520, 168.886

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 59, 12.802, 163.117 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(121, 148, 135)` looks like.

```
.text, #text, p{  
    color:rgb(121, 148, 135)  
}
```

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(121, 148, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 148, 135) }
```

## Border

The CSS property to change the border of an element to CIELCh 59, 12.802, 163.117 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(121, 148, 135) }
```

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

```
.border{ border-color:rgb(121, 148, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 148, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(121, 148, 135); -webkit-box-shadow:4px 4px 4px 4px rgb(121, 148, 135); box-shadow:4px 4px 4px 4px rgb(121, 148, 135) }
```

# Background

The CSS property to change the background color of an element to CIELCh 59, 12.802, 163.117 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 148, 135) }
```

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

```
.background{ background-color: rgb(121,  
148, 135) }
```

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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