

# Converting Colors

CIELCh(59, 21.278, 121.355)

Have a look what the booklet for  
CIELCh(59, 21.278, 121.355)  
contains.

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**Color**

**CIELCh(59, 21.303, 121.346)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	87936E
RGB	135, 147, 110
RGB Percent	53%, 58%, 43%
CMY	0.4717, 0.4246, 0.5697
CMYK	0.08, 0.00, 0.25, 0.42
HSL	79°, 15%, 50%
HSV	79°, 25%, 58%
XYZ	23.1367, 27.0277, 18.6727
YIQ	139.1940, 4.7250, -14.0510

# Conversions

## Conversions Part 2

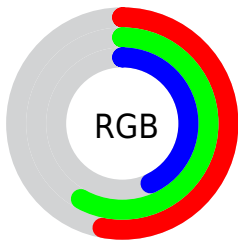
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	110, 147, 122
Decimal	8885102
CIE <sub>Lab</sub>	59.00, -11.08, 18.19
CIE <sub>LCh</sub>	59, 21.303, 121.346
Yxy	27.0277, 0.3361, 0.3926
Android (android.graphics.Color)	4287075182 (0xFF87936E)
YUV	139.1940, -14.3926, -3.6781
Hunter-Lab	51.9882, -11.5401, 15.0964

# Details

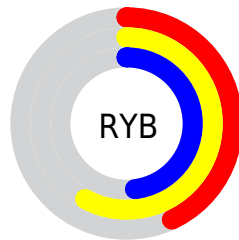
The CIELCh color  $59, 21.303, 121.346$  is a dark color, and the websafe version is hex  $999966$ . A complement of this color would be  $49, 22.320, 304.256$ , and the grayscale version is  $58, 0.007, 296.813$ .

A 20% lighter version of the original color is  $79, 21.166, 120.991$ , and  $39, 21.029, 120.838$  is the 20% darker color. If you saturate the color by 10%, you get  $58, 29.598, 120.801$ , and if you desaturate by 10%, it is  $60, 12.885, 121.903$ .

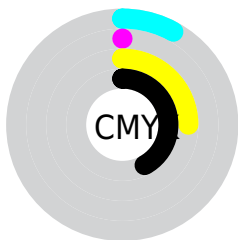
# Distribution



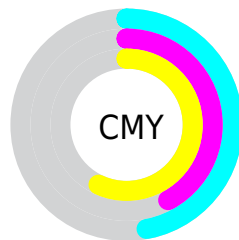
- Red (53%)
- Green (58%)
- Blue (43%)



- Red (43%)
- Yellow (58%)
- Blue (48%)



- Cyan (8%)
- Magenta (0%)
- Yellow (25%)
- Black (42%)




- Cyan (47%)
- Magenta (42%)
- Yellow (57%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 59, 21.303, 121.346 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, 21.303, 121.346 by changing the saturation by 10% instead.





 59, 21.303,  
121.346


 59, 21.303,  
121.346


 100, 21.303,  
121.346

 49, 21.303,  
121.346

 79, 21.303,  
121.346

 39, 21.303,  
121.346

 89, 21.303,  
121.346

 29, 21.303,  
121.346

 99, 21.303,  
121.346

 19, 21.303,  
121.346

 9, 21.303, 121.346

 0, 21.303, 121.346

■ 59, 21.303,  
121.346

■ 59, 21.303,  
121.346

■ 58, 29.598,  
120.801

■ 60, 12.885,  
121.903

■ 58, 37.659,  
120.288

■ 60, 4.411, 122.452

■ 57, 45.332,  
119.851

■ 61, 4.066, 302.951

■ 57, 52.392,  
119.554

■ 62, 12.510,  
303.451

■ 56, 58.531,  
119.482

■ 63, 20.897,  
303.912

■ 56, 63.389,  
119.740

■ 64, 29.205,  
304.340

■ 56, 66.712,  
120.411

■ 65, 37.422,  
304.736

■ 56, 68.089,

■ 66, 45.537,  
305.099

120.766

■ 67, 53.543,  
305.432

# Harmonies

# Complementary

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



59, 21.303, 121.346



49, 22.320, 304.256

# Rectangle

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



59, 21.303, 121.346



59, 21.303, 171.346



59, 21.303, 301.346



59, 21.303, 351.346

# Sweetspot

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



59, 21.304, 121.349



77, 8.413, 122.290



53, 12.804, 51.922



41, 6.027, 122.214



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, 21.304, 121.349



75, 31.391, 121.050



58, 24.234, 138.035



31, 4.817, 122.233



52, 64.978, 120.681



2, 4.226, 122.716



# Inverse Universe

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



49, 22.320, 304.256



59, 33.259, 304.648



50, 24.485, 320.405



29, 4.902, 303.220



17, 81.536, 308.889



0, 4.227, 302.715



# Previews

## White Background



This preview shows how the CIELCh color 59, 21.303, 121.346 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, 21.303, 121.346 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

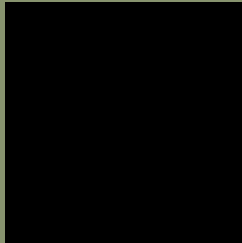
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

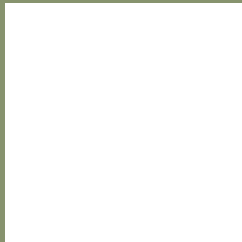
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 59, 21.303, 121.346

## Background



This preview shows how black text looks on a background with the CIELCh color 59, 21.303, 121.346.



This preview shows how white text looks on a background with the CIELCh color 59, 21.303, 121.346.

# 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, 21.303, 121.346


### Protanopia

59, 20.126, 95.598

### Deuteranopia

59, 18.873, 65.548





**Tritanopia**  
59, 6.240, 290.898

# Trichromacy



**Original Color**  
59, 21.303, 121.346

**Protanomaly**  
59, 20.181, 105.423

**Deuteranomaly**  
59, 17.585, 86.942

**Tritanomaly**  
59, 3.749, 134.537

# Monochromacy



**Original Color**  
59, 21.303, 121.346

**Achromatopsia**  
58, 0.007, 296.813

**Achromatomaly**  
58, 8.179, 123.440

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 59, 21.303, 121.346 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(135, 147, 110)` looks like.

```
.text, #text, p{  
    color:rgb(135, 147, 110)  
}
```

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(135, 147, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 147, 110) }
```

## Border

The CSS property to change the border of an element to CIELCh 59, 21.303, 121.346 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(135, 147, 110) }
```

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

```
.border{ border-color:rgb(135, 147, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 147, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(135, 147, 110); -webkit-box-shadow:4px 4px 4px 4px rgb(135, 147, 110); box-shadow:4px 4px 4px 4px rgb(135, 147, 110) }
```

# Background

The CSS property to change the background color of an element to CIELCh 59, 21.303, 121.346 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 147, 110) }
```

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

```
.background{ background-color: rgb(135,  
147, 110) }
```

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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