

# Converting Colors

CIELCh(59, 20.485, 316.294)

Have a look what the booklet for  
CIELCh(59, 20.485, 316.294)  
contains.

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# Color

**CIELCh(59, 20.649, 316.456)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9D86A7
RGB	157, 134, 167
RGB Percent	62%, 53%, 65%
CMY	0.3841, 0.4743, 0.3449
CMYK	0.06, 0.20, 0.00, 0.34
HSL	282°, 16%, 59%
HSV	282°, 20%, 66%
XYZ	29.4249, 27.0277, 40.2485
YIQ	144.6390, 3.1150, 15.1390

# Conversions

## Conversions Part 2

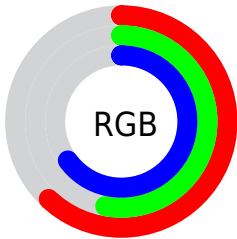
Format	Color
<a href="#">RYB</a>	<a href="#">157, 134, 167</a>
Decimal	<a href="#">10323623</a>
CIELab	<a href="#">59.00, 14.97, -14.23</a>
CIELCh	<a href="#">59, 20.649, 316.456</a>
Yxy	<a href="#">27.0277, 0.3043, 0.2795</a>
Android (android.graphics.Color)	<a href="#">4288513703 (0xFF9D86A7)</a>
YUV	<a href="#">144.6390, 11.0240, 10.8406</a>
Hunter-Lab	<a href="#">51.9882, 10.0503, -9.5097</a>

# Details

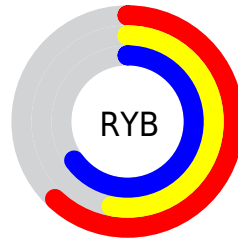
The CIELCh color  $59, 20.649, 316.456$  is a light color, and the websafe version is hex `9999CC`. A complement of this color would be  $66, 20.343, 134.763$ , and the grayscale version is  $60, 0.008, 296.813$ .

A 20% lighter version of the original color is  $79, 20.789, 316.845$ , and  $39, 20.770, 316.106$  is the 20% darker color. If you saturate the color by 10%, you get  $54, 31.322, 316.889$ , and if you desaturate by 10%, it is  $64, 10.097, 316.022$ .

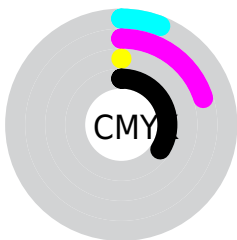
# Distribution



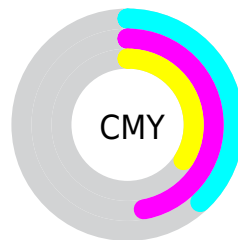
- Red (62%)
- Green (53%)
- Blue (65%)



- Red (62%)
- Yellow (53%)
- Blue (65%)



- Cyan (6%)
- Magenta (20%)
- Yellow (0%)
- Black (34%)




- Cyan (38%)
- Magenta (47%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 59, 20.649, 316.456 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, 20.649, 316.456 by changing the saturation by 10% instead.





 59, 20.649,  
316.456


 59, 20.649,  
316.456


 100, 20.649,  
316.456


 49, 20.649,  
316.456


 79, 20.649,  
316.456

 39, 20.649,  
316.456

 89, 20.649,  
316.456

 29, 20.649,  
316.456

 99, 20.649,  
316.456

 19, 20.649,  
316.456

 9, 20.649, 316.456

 0, 20.649, 316.456

59, 20.649,  
316.456

59, 20.649,  
316.456

54, 31.322,  
316.889

64, 10.097,  
316.022

50, 41.982,  
317.307

69, 0.243, 136.274

45, 52.406,  
317.683

74, 10.329,  
135.260

41, 62.269,  
317.981

78, 20.138,  
134.896

38, 71.130,  
318.149

83, 29.663,  
134.567

35, 78.460,  
318.128

88, 38.907,  
134.269


32, 83.753,  
317.853


93, 47.879,  
134.001

31, 87.171,

94, 49.348,  
132.589

317.351

 95, 48.533,  
130.730

 31, 87.253,  
317.339

# Harmonies

# Complementary

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



59, 20.649, 316.456



66, 20.343, 134.763

# Rectangle

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



59, 20.649, 316.456



59, 20.649, 6.456



59, 20.649, 136.456



59, 20.649, 186.456

# Sweetspot

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



59, 20.647, 316.456



83, 7.649, 315.861



60, 13.179, 275.170



44, 5.118, 315.889



94, 0.011, 296.813



46, 0.006, 296.813





# Same Dimension

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



59, 20.647, 316.456



72, 31.124, 316.659



60, 19.744, 331.149



33, 5.891, 316.002



27, 79.746, 317.434



1, 10.446, 313.206



# Inverse Universe

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



59, 14.248, 357.703



73, 21.566, 358.267



65, 19.676, 148.617



33, 4.026, 356.553



31, 58.016, 19.737

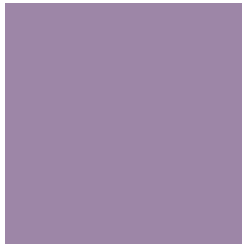


2, 7.060, 358.729



# Previews

## White Background



This preview shows how the CIELCh color 59, 20.649, 316.456 looks on a white background.

## Color Contrast Check

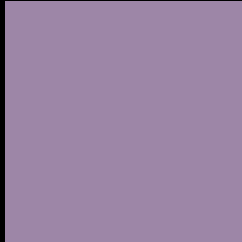
Large Text (above 18pt) WCAG AA ✓ Pass

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, 20.649, 316.456 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

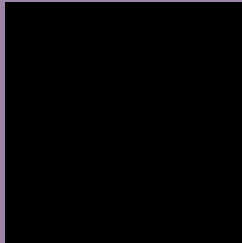
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 59, 20.649, 316.456

## Background



This preview shows how black text looks on a background with the CIELCh color 59, 20.649, 316.456.



This preview shows how white text looks on a background with the CIELCh color 59, 20.649, 316.456.

# 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, 20.649, 316.456

### Protanopia

59, 17.643, 285.298

### Deuteranopia

59, 15.466, 298.653





**Tritanopia**  
59, 9.115, 337.256

# Trichromacy



**Original Color**  
59, 20.649, 316.456

**Protanomaly**  
59, 18.301, 297.840

**Deuteranomaly**  
59, 17.114, 306.887

**Tritanomaly**  
59, 13.042, 325.081

# Monochromacy



**Original Color**  
59, 20.649, 316.456

**Achromatopsia**  
60, 0.008, 296.813

**Achromatomaly**  
60, 7.484, 314.967

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 59, 20.649, 316.456 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(157, 134, 167)` looks like.

```
.text, #text, p{  
    color:rgb(157, 134, 167)  
}
```

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(157, 134, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 134, 167) }
```

## Border

The CSS property to change the border of an element to CIELCh 59, 20.649, 316.456 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(157, 134, 167) }
```

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

```
.border{ border-color:rgb(157, 134, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 134, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 134, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 134, 167);  
box-shadow:4px 4px 4px 4px rgb(157, 134,  
167) }
```

# Background

The CSS property to change the background color of an element to CIELCh 59, 20.649, 316.456 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 134, 167) }
```

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

```
.background{ background-color: rgb(157,  
134, 167) }
```

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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