

# Converting Colors

CIELCh(62, 1.033, 313.069)

Have a look what the booklet for  
CIELCh(62, 1.033, 313.069) contains.

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# Color

**CIELCh(62, 1.198, 309.044)**

# Conversions

## Conversions Part 1

Format	Color
Hex	969597
RGB	150, 149, 151
RGB Percent	59%, 58%, 59%
CMY	0.4101, 0.4140, 0.4062
CMYK	0.01, 0.01, 0.00, 0.41
HSL	270°, 1%, 59%
HSV	270°, 1%, 59%
XYZ	29.0917, 30.4025, 33.7951
YIQ	149.5270, -0.0460, 0.8340

# Conversions

## Conversions Part 2

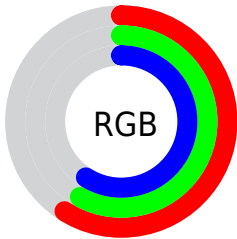
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	150, 149, 151
Decimal	9868695
CIE <sub>Lab</sub>	62.00, 0.75, -0.93
CIE <sub>LCh</sub>	62, 1.198, 309.044
Yxy	30.4025, 0.3118, 0.3259
Android (android.graphics.Color)	4288058775 (0xFF969597)
YUV	149.5270, 0.7262, 0.4148
Hunter-Lab	55.1385, -2.3137, 2.2574

# Details

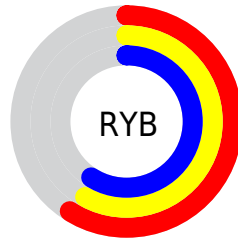
The CIELCh color  $62, 1.198, 309.044$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $62, 1.179, 129.071$ , and the grayscale version is  $62, 0.008, 296.813$ .

A 20% lighter version of the original color is  $82, 1.134, 309.005$ , and  $42, 1.289, 309.094$  is the 20% darker color. If you saturate the color by 10%, you get  $57, 10.354, 309.534$ , and if you desaturate by 10%, it is  $67, 7.692, 128.714$ .

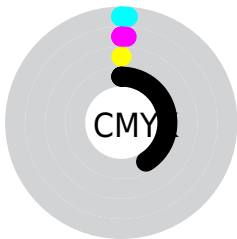
# Distribution



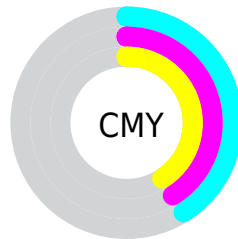
- Red (59%)
- Green (58%)
- Blue (59%)



- Red (59%)
- Yellow (58%)
- Blue (59%)



- Cyan (1%)
- Magenta (1%)
- Yellow (0%)
- Black (41%)



- Cyan (41%)
- Magenta (41%)
- Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 62, 1.198, 309.044 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 62, 1.198, 309.044 by changing the saturation by 10% instead.



■ 62, 1.198, 309.044

■ 62, 1.198, 309.044

100, 1.198,  
309.044

■ 52, 1.198, 309.044

■ 82, 1.198, 309.044

■ 42, 1.198, 309.044

■ 92, 1.198, 309.044

■ 32, 1.198, 309.044

■ 22, 1.198, 309.044

■ 12, 1.198, 309.044

■ 2, 1.198, 309.044

■ 0, 1.198, 309.044

■ 62, 1.198, 309.044

■ 62, 1.198, 309.044

■ 57, 10.354,

■ 67, 7.692, 128.714

309.534

71, 16.309,  
128.350

53, 19.764,  
310.020

76, 24.661,  
128.032

48, 29.389,  
310.536

81, 32.758,  
127.754

43, 39.147,  
311.068

85, 40.612,  
127.510

39, 48.893,  
311.591

90, 48.235,  
127.299

35, 58.378,  
312.060

95, 55.405,  
127.048

31, 67.213,  
312.411

95, 54.393,  
124.350

27, 74.847,  
312.553

95, 53.504,  
121.501

25, 80.640,  
312.378



# Harmonies

# Complementary

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



62, 1.198, 309.044



62, 1.179, 129.071

# Rectangle

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



62, 1.198, 309.044



62, 1.198, 359.044



62, 1.198, 129.044



62, 1.198, 179.044

# Sweetspot

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



62, 1.196, 309.021



79, 0.010, 296.813



62, 0.671, 254.205



42, 0.006, 296.813



90, 0.011, 296.813

# Same Dimension

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



62, 1.196, 309.021



78, 2.238, 309.079



62, 1.366, 323.917



32, 1.032, 309.066



21, 79.799, 312.134



1, 5.542, 308.750





# Inverse Universe

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



62, 0.964, 343.377



78, 1.803, 343.555



62, 1.352, 144.083



32, 0.832, 343.516



30, 54.428, 0.901



1, 4.450, 344.065



# Previews

## White Background



This preview shows how the CIELCh color 62, 1.198, 309.044 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 62, 1.198, 309.044 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

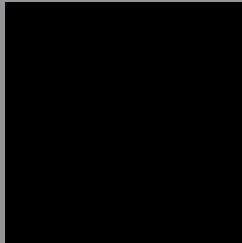
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

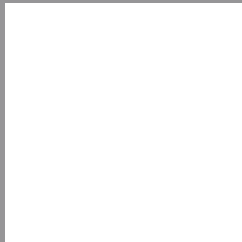
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 62, 1.198, 309.044

## Background



This preview shows how black text looks on a background with the CIELCh color 62, 1.198, 309.044.



This preview shows how white text looks on a background with the CIELCh color 62, 1.198, 309.044.

# 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


62, 1.198, 309.044

### Protanopia

62, 1.626, 335.624

### Deuteranopia

62, 8.046, 351.056



**Tritanopia**  
62, 6.931, 303.448



# Trichromacy



**Original Color**  
62, 1.198, 309.044

**Protanomaly**  
62, 1.375, 324.361

**Deuteranomaly**  
62, 5.121, 346.692

**Tritanomaly**  
62, 4.569, 300.218

# Monochromacy



**Original Color**  
62, 1.198, 309.044

**Achromatopsia**  
62, 0.008, 296.813

**Achromatomaly**  
62, 0.568, 290.331

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 62, 1.198, 309.044 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(150, 149, 151)` looks like.

```
.text, #text, p{  
    color:rgb(150, 149, 151)  
}
```

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(150, 149, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 149, 151) }
```

## Border

The CSS property to change the border of an element to CIELCh 62, 1.198, 309.044 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(150, 149, 151) }
```

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

```
.border{ border-color:rgb(150, 149, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 149, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 149, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 149, 151);  
box-shadow:4px 4px 4px 4px rgb(150, 149,  
151) }
```

# Background

The CSS property to change the background color of an element to CIELCh 62, 1.198, 309.044 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 149, 151) }
```

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

```
.background{ background-color: rgb(150,  
149, 151) }
```

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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