

# Converting Colors

CIELCh(59, 6.069, 19.967)

Have a look what the booklet for  
CIELCh(59, 6.069, 19.967) contains.

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# Color

**CIELCh(59, 5.970, 19.936)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9A8B8B
RGB	154, 139, 139
RGB Percent	60%, 55%, 55%
CMY	0.3977, 0.4565, 0.4565
CMYK	0.00, 0.10, 0.10, 0.40
HSL	0°, 7%, 57%
HSV	0°, 10%, 60%
XYZ	27.0504, 27.0277, 28.0606
YIQ	143.4850, 8.9400, 3.1800

# Conversions

## Conversions Part 2

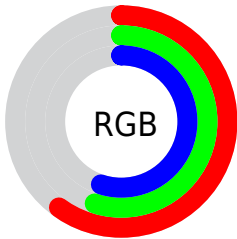
<b>Format</b>	<b>Color</b>
<b>RYB</b>	154, 139, 139
Decimal	10128267
CIELab	59.00, 5.61, 2.04
CIELCh	59, 5.970, 19.936
Yxy	27.0277, 0.3293, 0.3291
Android (android.graphics.Color)	4288318347 (0xFF9A8B8B)
YUV	143.4850, -2.2111, 9.2217
Hunter-Lab	51.9882, 1.8972, 4.3900

# Details

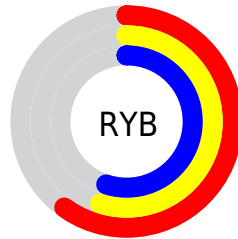
The CIELCh color  $59, 5.970, 19.936$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $62, 5.621, 198.981$ , and the grayscale version is  $59, 0.008, 296.813$ .

A 20% lighter version of the original color is  $79, 5.980, 19.790$ , and  $39, 6.067, 20.196$  is the 20% darker color. If you saturate the color by 10%, you get  $55, 12.558, 20.778$ , and if you desaturate by 10%, it is  $64, 0.140, 202.649$ .

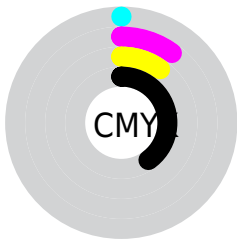
# Distribution



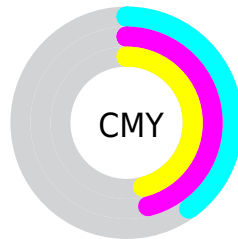
- Red (60%)
- Green (55%)
- Blue (55%)



- Red (60%)
- Yellow (55%)
- Blue (55%)



- Cyan (0%)
- Magenta (10%)
- Yellow (10%)
- Black (40%)



- Cyan (40%)
- Magenta (46%)
- Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 59, 5.970, 19.936 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, 5.970, 19.936 by changing the saturation by 10% instead.



 59, 5.970, 19.936       59, 5.970, 19.936

 100, 5.970, 19.936       49, 5.970, 19.936

 79, 5.970, 19.936       39, 5.970, 19.936

 89, 5.970, 19.936       29, 5.970, 19.936

 99, 5.970, 19.936       19, 5.970, 19.936

 9, 5.970, 19.936

 0, 5.970, 19.936

 59, 5.970, 19.936       59, 5.970, 19.936

 55, 12.558, 20.778       64, 0.140, 202.649

 50, 19.634, 21.809       68, 5.798, 199.005

46, 27.165, 23.139

73, 11.045,  
198.581

42, 35.062, 24.864

77, 15.925,  
198.258

39, 43.164, 27.091

36, 51.235, 29.892

82, 20.481,  
197.998

34, 58.950, 33.220

87, 24.753,  
197.787

32, 65.743, 36.687

31, 71.019, 39.486

91, 28.775,  
197.612

94, 31.011,  
197.509

# Harmonies

# Complementary

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



59, 5.970, 19.936



62, 5.621, 198.981

# Rectangle

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



59, 5.970, 19.936



59, 5.970, 69.936



59, 5.970, 199.936



59, 5.970, 249.936

# Sweetspot

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



59, 5.969, 19.951



79, 2.208, 19.350



59, 10.293, 324.943



41, 1.674, 19.446



90, 0.011, 296.813



42, 0.006, 296.813



# Same Dimension

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



59, 5.969, 19.951



73, 9.147, 20.144



61, 5.142, 74.202



30, 3.438, 19.909



28, 66.111, 39.052



1, 3.595, 19.418





# Inverse Universe

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



62, 5.621, 198.981



78, 8.478, 198.839



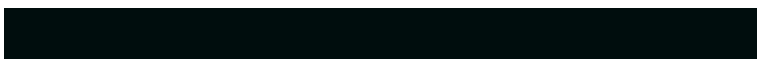
60, 5.029, 256.718



32, 3.249, 199.013



53, 32.112, 196.411



3, 3.595, 199.437



# Previews

## White Background



This preview shows how the CIELCh color 59, 5.970, 19.936 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, 5.970, 19.936 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

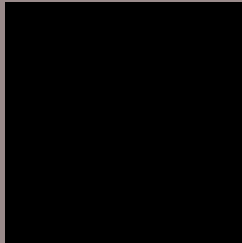
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 59, 5.970, 19.936**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 59, 5.970, 19.936.



This preview shows how white text looks on a background with the CIELCh color 59, 5.970, 19.936.

# 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, 5.970, 19.936

### Protanopia

59, 1.663, 39.151

### Deuteranopia

59, 8.064, 12.167



**Tritanopia**  
59, 9.403, 338.939



# Trichromacy



**Original Color**  
59, 5.970, 19.936

**Protanomaly**  
59, 3.208, 29.714

**Deuteranomaly**  
59, 7.202, 15.605

**Tritanomaly**  
59, 7.437, 348.015

# Monochromacy



**Original Color**  
59, 5.970, 19.936

**Achromatopsia**  
59, 0.008, 296.813

**Achromatomaly**  
59, 2.357, 19.459

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 59, 5.970, 19.936 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(154, 139, 139)` looks like.

```
.text, #text, p{  
    color:rgb(154, 139, 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(154, 139, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 139, 139) }
```

## Border

The CSS property to change the border of an element to CIELCh 59, 5.970, 19.936 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(154, 139, 139) }
```

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

```
.border{ border-color:rgb(154, 139, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(154, 139, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 139, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 139, 139);  
box-shadow:4px 4px 4px 4px rgb(154, 139,  
139) }
```

# Background

The CSS property to change the background color of an element to CIELCh 59, 5.970, 19.936 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 139, 139) }
```

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

```
.background{ background-color: rgb(154,  
139, 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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