

# Converting Colors

CIELCh(67, 4.532, 199.065)

Have a look what the booklet for  
CIELCh(67, 4.532, 199.065) contains.

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# Color

**CIELCh(67, 4.828, 199.083)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99A6A6
RGB	153, 166, 166
RGB Percent	60%, 65%, 65%
CMY	0.4013, 0.3503, 0.3503
CMYK	0.08, 0.00, 0.00, 0.35
HSL	180°, 7%, 62%
HSV	180°, 8%, 65%
XYZ	33.5024, 36.6320, 41.2204
YIQ	162.1130, -7.7480, -2.7560

# Conversions

## Conversions Part 2

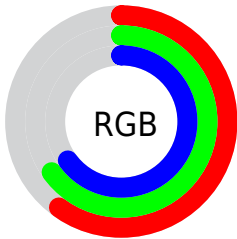
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 160, 166
Decimal	10069670
CIELab	67.00, -4.56, -1.58
CIELCh	67, 4.828, 199.083
Yxy	36.6320, 0.3009, 0.3290
Android (android.graphics.Color)	4288259750 (0xFF99A6A6)
YUV	162.1130, 1.9163, -7.9921
Hunter-Lab	60.5244, -7.1116, 1.9873

# Details

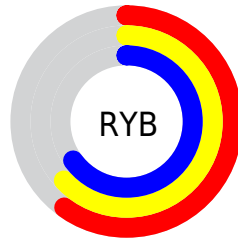
The CIELCh color  $67, 4.828, 199.083$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $64, 5.068, 19.777$ , and the grayscale version is  $67, 0.008, 296.813$ .

A 20% lighter version of the original color is  $87, 4.946, 199.176$ , and  $47, 4.744, 198.939$  is the 20% darker color. If you saturate the color by 10%, you get  $66, 10.692, 198.505$ , and if you desaturate by 10%, it is  $68, 1.357, 19.155$ .

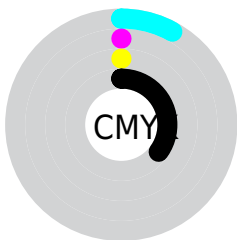
# Distribution



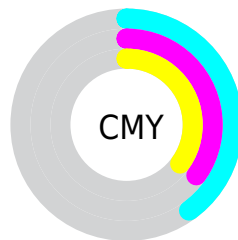
- Red (60%)
- Green (65%)
- Blue (65%)



- Red (60%)
- Yellow (63%)
- Blue (65%)



- Cyan (8%)
- Magenta (0%)
- Yellow (0%)
- Black (35%)



- Cyan (40%)
- Magenta (35%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 67, 4.828, 199.083 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 67, 4.828, 199.083 by changing the saturation by 10% instead.



■ 67, 4.828, 199.083

■ 67, 4.828, 199.083

■ 100, 4.828,  
199.083

■ 57, 4.828, 199.083

■ 87, 4.828, 199.083

■ 47, 4.828, 199.083

■ 97, 4.828, 199.083

■ 37, 4.828, 199.083

■ 27, 4.828, 199.083

■ 17, 4.828, 199.083

■ 7, 4.828, 199.083

■ 0, 4.828, 199.083

■ 67, 4.828, 199.083

■ 67, 4.828, 199.083

■ 66, 10.692,

■ 68, 1.357, 19.155

198.505

70, 7.779, 20.018

65, 16.139,  
198.026

71, 14.365, 20.638

64, 21.071,  
197.606

73, 21.051, 21.255

63, 25.395,  
197.245

75, 27.787, 21.875

63, 29.029,  
196.946

77, 35.726, 22.602

62, 31.917,  
196.712

77, 35.726, 22.600

62, 34.037,  
196.540

77, 35.726, 22.597

62, 35.411,  
196.429

62, 36.157,  
196.368



# Harmonies

# Complementary

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



67, 4.828, 199.083



64, 5.068, 19.777

# Rectangle

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



67, 4.828, 199.083



67, 4.828, 249.083



67, 4.828, 19.083



67, 4.828, 69.083

# Sweetspot

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



67, 4.829, 199.066



85, 1.537, 199.656



67, 8.729, 143.587



45, 0.872, 199.685



93, 0.011, 296.813



45, 0.006, 296.813





# Same Dimension

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



67, 4.829, 199.066



84, 6.806, 198.983



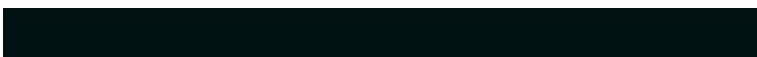
65, 4.251, 254.641



34, 3.428, 198.977



54, 32.971, 196.357



4, 5.463, 199.400



# Inverse Universe

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



64, 5.068, 19.777



80, 7.203, 19.880



66, 4.332, 72.597



32, 3.629, 19.887



30, 68.056, 39.257



1, 5.464, 19.390



# Previews

## White Background



This preview shows how the CIELCh color 67, 4.828, 199.083 looks on a white background.

## Color Contrast Check

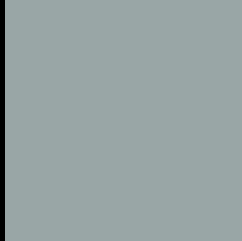
Large Text (above 18pt) WCAG AA × Fail

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 67, 4.828, 199.083 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

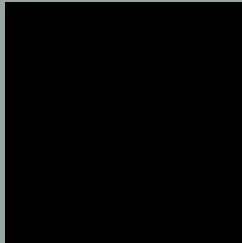
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

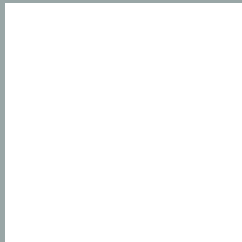
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 67, 4.828, 199.083

## Background



This preview shows how black text looks on a background with the CIELCh color 67, 4.828, 199.083.



This preview shows how white text looks on a background with the CIELCh color 67, 4.828, 199.083.

# 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

67, 4.828, 199.083

### Protanopia

67, 1.602, 335.601

### Deuteranopia

67, 8.814, 345.963





**Tritanopia**  
67, 7.819, 266.294

# Trichromacy



**Original Color**  
67, 4.828, 199.083

**Protanomaly**  
67, 1.333, 255.948

**Deuteranomaly**  
67, 4.270, 328.793

**Tritanomaly**  
67, 5.907, 247.765

# Monochromacy



**Original Color**  
67, 4.828, 199.083

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
67, 1.508, 199.586

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 67, 4.828, 199.083 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(153, 166, 166)` looks like.

```
.text, #text, p{  
    color:rgb(153, 166, 166)  
}
```

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(153, 166, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 166, 166) }
```

## Border

The CSS property to change the border of an element to CIELCh 67, 4.828, 199.083 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(153, 166, 166) }
```

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

```
.border{ border-color:rgb(153, 166, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 166, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 166, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 166, 166);  
box-shadow:4px 4px 4px 4px rgb(153, 166,  
166) }
```

# Background

The CSS property to change the background color of an element to CIELCh 67, 4.828, 199.083 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 166, 166) }
```

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

```
.background{ background-color: rgb(153,  
166, 166) }
```

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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