

# Converting Colors

CIELCh(62, 9.785, 67.585)

Have a look what the booklet for  
CIELCh(62, 9.785, 67.585) contains.

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# **Color**

**CIELCh(62, 9.771, 67.596)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A39386
RGB	163, 147, 134
RGB Percent	64%, 58%, 53%
CMY	0.3605, 0.4233, 0.4743
CMYK	0.00, 0.10, 0.18, 0.36
HSL	27°, 14%, 58%
HSV	27°, 18%, 64%
XYZ	29.8676, 30.4025, 26.8704
YIQ	150.3020, 13.7090, -0.6510

# Conversions

## Conversions Part 2

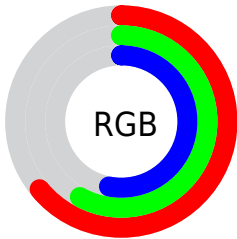
<b>Format</b>	<b>Color</b>
<b>RYB</b>	163, 158, 134
Decimal	10720134
CIELab	62.00, 3.72, 9.03
CIELCh	62, 9.771, 67.596
Yxy	30.4025, 0.3428, 0.3489
Android (android.graphics.Color)	4288910214 (0xFFA39386)
YUV	150.3020, -8.0369, 11.1361
Hunter-Lab	55.1385, 0.1981, 9.7034

# Details

The CIELCh color  $62, 9.771, 67.596$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $61, 9.200, 251.971$ , and the grayscale version is  $62, 0.008, 296.813$ .

A 20% lighter version of the original color is  $82, 9.821, 68.332$ , and  $42, 9.892, 66.547$  is the 20% darker color. If you saturate the color by 10%, you get  $59, 15.693, 66.503$ , and if you desaturate by 10%, it is  $65, 4.162, 68.680$ .

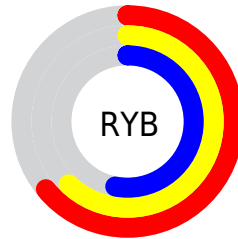
# Distribution



Red (64%)

Green (58%)

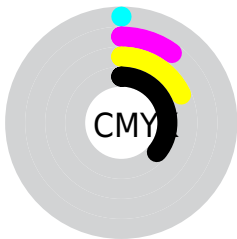
Blue (53%)



Red (64%)

Yellow (62%)

Blue (53%)

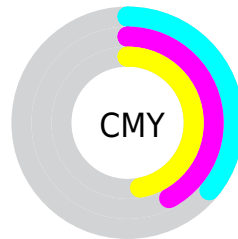


Cyan (0%)

Magenta (10%)

Yellow (18%)

Black (36%)



Cyan (36%)

Magenta (42%)

Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 62, 9.771, 67.596 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, 9.771, 67.596 by changing the saturation by 10% instead.



 62, 9.771, 67.596       62, 9.771, 67.596

 100, 9.771, 67.596       52, 9.771, 67.596

 82, 9.771, 67.596       42, 9.771, 67.596

 92, 9.771, 67.596       32, 9.771, 67.596


 22, 9.771, 67.596

 12, 9.771, 67.596

 2, 9.771, 67.596

 0, 9.771, 67.596

 62, 9.771, 67.596       62, 9.771, 67.596

 59, 15.693, 66.503       65, 4.162, 68.680

57, 21.946, 65.399

68, 1.161, 250.178

54, 28.531, 64.307

71, 6.227, 251.025

51, 35.411, 63.219

73, 11.064,  
252.070

49, 42.474, 62.104

76, 15.698,  
253.099

47, 49.465, 60.873

45, 55.865, 59.327

79, 20.154,  
254.098

43, 61.090, 57.285

82, 24.453,  
255.061

42, 62.301, 56.926

85, 25.034,  
248.146

87, 24.040,  
234.561

# Harmonies

# Complementary

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



62, 9.771, 67.596



61, 9.200, 251.971

# Rectangle

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



62, 9.771, 67.596



62, 9.771, 117.596



62, 9.771, 247.596



62, 9.771, 297.596

# Sweetspot

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



62, 9.771, 67.609



83, 3.280, 68.935



59, 14.632, 341.618



44, 2.260, 68.876



93, 0.011, 296.813



45, 0.006, 296.813



# Same Dimension

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



62, 9.771, 67.609



77, 14.408, 67.211



66, 14.919, 105.579



33, 3.038, 68.528



38, 57.119, 57.321



3, 4.545, 64.634





# Inverse Universe

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



61, 9.200, 251.971



76, 13.381, 252.528



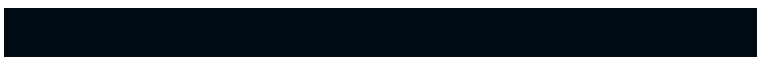
57, 15.440, 289.383



33, 2.953, 250.811



34, 42.048, 277.515

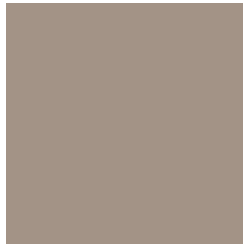


2, 4.793, 255.461



# Previews

## White Background



This preview shows how the CIELCh color 62, 9.771, 67.596 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, 9.771, 67.596 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

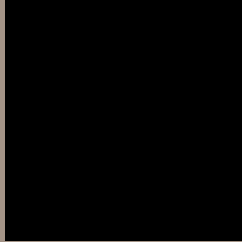
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 62, 9.771, 67.596

## Background



This preview shows how black text looks on a background with the CIELCh color 62, 9.771, 67.596.



This preview shows how white text looks on a background with the CIELCh color 62, 9.771, 67.596.

# 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, 9.771, 67.596

### Protanopia

62, 8.308, 89.459

### Deuteranopia

62, 11.790, 45.399



**Tritanopia**  
62, 10.538, 344.725



# Trichromacy



**Original Color**  
62, 9.771, 67.596

**Protanomaly**  
62, 8.518, 77.897

**Deuteranomaly**  
62, 10.594, 51.787

**Tritanomaly**  
62, 7.976, 12.111

# Monochromacy



**Original Color**  
62, 9.771, 67.596

**Achromatopsia**  
62, 0.008, 296.813

**Achromatomaly**  
62, 3.644, 69.456

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 62, 9.771, 67.596 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(163, 147, 134)` looks like.

```
.text, #text, p{  
    color:rgb(163, 147, 134)  
}
```

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(163, 147, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 147, 134) }
```

## Border

The CSS property to change the border of an element to CIELCh 62, 9.771, 67.596 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(163, 147, 134) }
```

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

```
.border{ border-color:rgb(163, 147, 134) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 147, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 147, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 147, 134);  
box-shadow:4px 4px 4px 4px rgb(163, 147,  
134) }
```

# Background

The CSS property to change the background color of an element to CIELCh 62, 9.771, 67.596 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 147, 134) }
```

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

```
.background{ background-color: rgb(163,  
147, 134) }
```

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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