

# Converting Colors

CIELCh(69, 3.048, 31.071)

Have a look what the booklet for  
CIELCh(69, 3.048, 31.071) contains.

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# Color

**CIELCh(69, 3.099, 29.672)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AFA7A6
RGB	175, 167, 166
RGB Percent	69%, 65%, 65%
CMY	0.3149, 0.3463, 0.3502
CMYK	0.00, 0.05, 0.05, 0.31
HSL	7°, 5%, 67%
HSV	7°, 5%, 69%
XYZ	38.2262, 39.3444, 41.5081
YIQ	169.2780, 5.0890, 1.3850

# Conversions

## Conversions Part 2

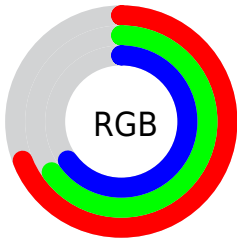
<b>Format</b>	<b>Color</b>
RYB	175, 167, 166
Decimal	11511718
CIELab	69.00, 2.69, 1.53
CIELCh	69, 3.099, 29.672
Yxy	39.3444, 0.3210, 0.3304
Android (android.graphics.Color)	4289701798 (0xFFAFA7A6)
YUV	169.2780, -1.6161, 5.0182
Hunter-Lab	62.7251, -0.9866, 4.6727

# Details

The CIELCh color **69, 3.099, 29.672** is a light color, and the websafe version is hex **999999**. A complement of this color would be **70, 3.001, 209.864**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **89, 3.291, 28.521**, and **49, 3.332, 29.761** is the 20% darker color. If you saturate the color by 10%, you get **64, 9.494, 30.091**, and if you desaturate by 10%, it is **74, 2.805, 209.888**.

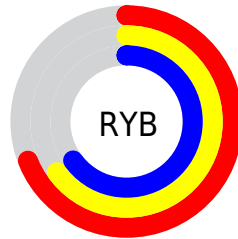
# Distribution



Red (69%)

Green (65%)

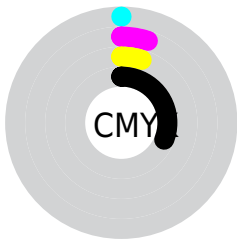
Blue (65%)



Red (69%)

Yellow (65%)

Blue (65%)

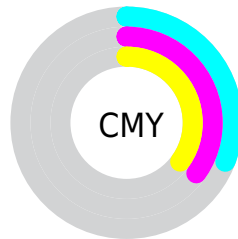


Cyan (0%)

Magenta (5%)

Yellow (5%)

Black (31%)



Cyan (31%)

Magenta (35%)

Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 3.099, 29.672 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 69, 3.099, 29.672 by changing the saturation by 10% instead.



 69, 3.099, 29.672       69, 3.099, 29.672

 100, 3.099, 29.672       59, 3.099, 29.672

 89, 3.099, 29.672       49, 3.099, 29.672

 99, 3.099, 29.672       39, 3.099, 29.672


 29, 3.099, 29.672

 19, 3.099, 29.672

 9, 3.099, 29.672

 0, 3.099, 29.672

 69, 3.099, 29.672       69, 3.099, 29.672

 64, 9.494, 30.091       74, 2.805, 209.888

60, 16.422, 30.542

78, 8.262, 209.698

56, 23.903, 31.180

83, 13.322,  
209.667

52, 31.926, 32.070

87, 18.030,  
209.698

48, 40.433, 33.273

45, 49.291, 34.837

92, 22.430,  
209.769

42, 58.249, 36.745

95, 25.472,  
197.847

39, 66.811, 38.809

38, 73.910, 40.460

# Harmonies

# Complementary

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



69, 3.099, 29.672



70, 3.001, 209.864

# Rectangle

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



69, 3.099, 29.672



69, 3.099, 79.672



69, 3.099, 209.672



69, 3.099, 259.672

# Sweetspot

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



69, 3.098, 29.706



89, 1.470, 29.392



69, 5.617, 327.519



48, 0.842, 29.366



96, 0.011, 296.813



48, 0.006, 296.813



# Same Dimension

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



69, 3.098, 29.706



87, 4.483, 29.753



70, 3.234, 84.701



35, 2.383, 29.771



32, 68.381, 41.279



2, 7.153, 27.694





# Inverse Universe

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



70, 3.001, 209.864



89, 4.315, 209.827



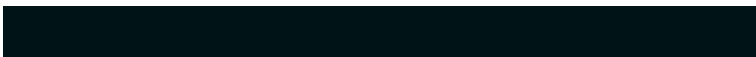
69, 3.231, 266.154



36, 2.288, 209.814



51, 29.904, 216.159

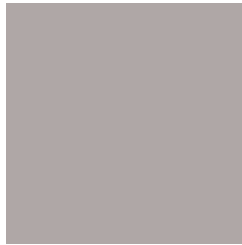


5, 6.786, 214.746



# Previews

## White Background



This preview shows how the CIE LCh color 69, 3.099, 29.672 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 CIELCh color 69, 3.099, 29.672 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

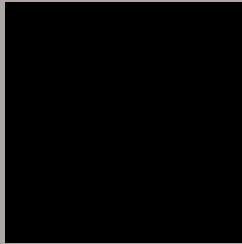
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

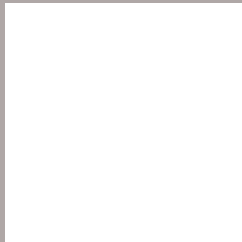
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 69, 3.099, 29.672**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 69, 3.099, 29.672.



This preview shows how white text looks on a background with the CIELCh color 69, 3.099, 29.672.

# 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


69, 3.099, 29.672

### Protanopia

69, 1.863, 55.192

### Deuteranopia

69, 8.645, 9.226



**Tritanopia**  
69, 8.278, 320.479



# Trichromacy



**Original Color**  
69, 3.099, 29.672

**Protanomaly**  
69, 2.186, 49.342

**Deuteranomaly**  
69, 6.629, 10.446

**Tritanomaly**  
69, 5.813, 330.826

# Monochromacy



**Original Color**  
69, 3.099, 29.672

**Achromatopsia**  
69, 0.009, 296.813

**Achromatomaly**  
69, 1.137, 19.078

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 3.099, 29.672 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(175, 167, 166)` looks like.

```
.text, #text, p{  
    color:rgb(175, 167, 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(175, 167, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 167, 166) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 3.099, 29.672 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(175, 167, 166) }
```

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

```
.border{ border-color:rgb(175, 167, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 167, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 167, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 167, 166);  
box-shadow:4px 4px 4px 4px rgb(175, 167,  
166) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 3.099, 29.672 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 167, 166) }
```

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

```
.background{ background-color: rgb(175,  
167, 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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