

# Converting Colors

CIELCh(69, 2.332, 309.082)

Have a look what the booklet for  
CIELCh(69, 2.332, 309.082) contains.

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# Color

**CIELCh(69, 2.336, 309.123)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAA8AC
RGB	170, 168, 172
RGB Percent	67%, 66%, 67%
CMY	0.3347, 0.3426, 0.3269
CMYK	0.01, 0.02, 0.00, 0.33
HSL	270°, 2%, 67%
HSV	270°, 2%, 67%
XYZ	37.8488, 39.3444, 44.4483
YIQ	169.0540, -0.0920, 1.6680

# Conversions

## Conversions Part 2

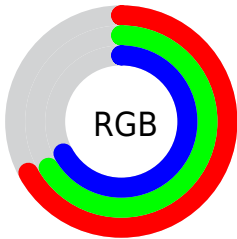
<b>Format</b>	<b>Color</b>
<b>RYB</b>	170, 168, 172
Decimal	11184300
CIELab	69.00, 1.47, -1.81
CIElCh	69, 2.336, 309.123
Yxy	39.3444, 0.3112, 0.3234
Android (android.graphics.Color)	4289374380 (0xFFAAA8AC)
YUV	169.0540, 1.4524, 0.8296
Hunter-Lab	62.7251, -2.0606, 1.8934

# Details

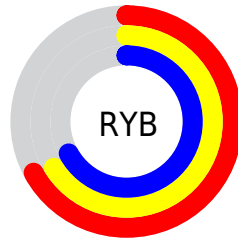
The CIELCh color  $69, 2.336, 309.123$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $70, 2.311, 129.003$ , and the grayscale version is  $69, 0.009, 296.813$ .

A 20% lighter version of the original color is  $89, 2.219, 309.086$ , and  $49, 2.495, 309.174$  is the 20% darker color. If you saturate the color by 10%, you get  $64, 12.510, 309.598$ , and if you desaturate by 10%, it is  $74, 7.541, 128.762$ .

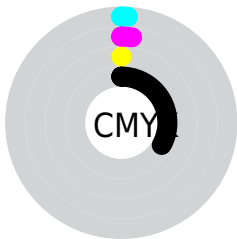
# Distribution



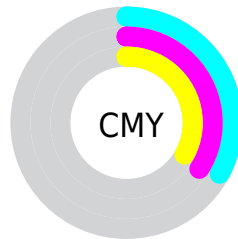
- Red (67%)
- Green (66%)
- Blue (67%)



- Red (67%)
- Yellow (66%)
- Blue (67%)



- Cyan (1%)
- Magenta (2%)
- Yellow (0%)
- Black (33%)



- Cyan (33%)
- Magenta (34%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 2.336, 309.123 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, 2.336, 309.123 by changing the saturation by 10% instead.



■ 69, 2.336, 309.123

■ 69, 2.336, 309.123

■ 100, 2.336,  
309.123

■ 59, 2.336, 309.123

■ 89, 2.336, 309.123

■ 49, 2.336, 309.123

■ 99, 2.336, 309.123

■ 39, 2.336, 309.123

■ 29, 2.336, 309.123

■ 19, 2.336, 309.123

■ 9, 2.336, 309.123

■ 0, 2.336, 309.123

■ 69, 2.336, 309.123

■ 69, 2.336, 309.123

■ 64, 12.510,

■ 74, 7.541, 128.762

309.598

79, 17.113,  
128.390

59, 22.965,  
310.093

85, 26.388,  
128.065

53, 33.651,  
310.617

90, 35.376,  
127.781

48, 44.469,  
311.155

95, 44.091,  
127.534

43, 55.241,  
311.677

96, 43.853,  
124.048

39, 65.666,  
312.137

97, 42.949,  
119.998

35, 75.272,  
312.462

97, 42.279,  
115.723

31, 83.413,  
312.555

98, 41.868,  
111.273

28, 89.370,  
312.306



# Harmonies

# Complementary

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



69, 2.336, 309.123



70, 2.311, 129.003

# Rectangle

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



69, 2.336, 309.123



69, 2.336, 359.123



69, 2.336, 129.123



69, 2.336, 179.123

# Sweetspot

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



69, 2.334, 309.110



89, 1.250, 308.997



69, 1.306, 254.126



47, 0.710, 308.988



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



69, 2.334, 309.110



87, 3.742, 309.152



69, 2.665, 324.037



36, 2.292, 309.188



23, 84.042, 312.071



1, 11.830, 305.848



# Inverse Universe

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



69, 1.880, 343.626



88, 3.015, 343.730



70, 2.649, 143.960



36, 1.846, 343.811



32, 57.252, 1.216



2, 9.139, 348.784



# Previews

## White Background



This preview shows how the CIELCh color 69, 2.336, 309.123 looks on a white background.

## Color Contrast Check

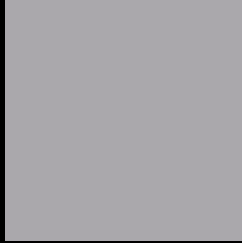
Large Text (above 18pt) WCAG AA × Fail

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 69, 2.336, 309.123 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

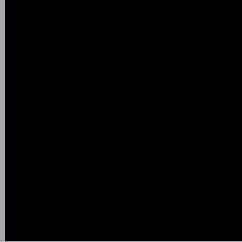
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 69, 2.336, 309.123

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 2.336, 309.123.



This preview shows how white text looks on a background with the CIELCh color 69, 2.336, 309.123.

# 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, 2.336, 309.123


### Protanopia

69, 2.988, 312.556

### Deuteranopia

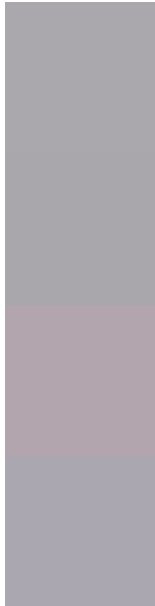
69, 9.384, 344.521





**Tritanopia**  
69, 7.945, 304.333

# Trichromacy



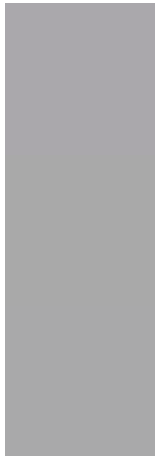
**Original Color**  
69, 2.336, 309.123

**Protanomaly**  
69, 2.988, 312.556

**Deuteranomaly**  
69, 6.615, 338.404

**Tritanomaly**  
69, 5.715, 305.764

# Monochromacy



**Original Color**  
69, 2.336, 309.123

**Achromatopsia**  
69, 0.009, 296.813

**Achromatomaly**  
69, 0.556, 290.335

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 2.336, 309.123 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(170, 168, 172)` looks like.

```
.text, #text, p{  
    color:rgb(170, 168, 172)  
}
```

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(170, 168, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 168, 172) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 2.336, 309.123 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(170, 168, 172) }
```

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

```
.border{ border-color:rgb(170, 168, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 168, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 168, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 168, 172);  
box-shadow:4px 4px 4px 4px rgb(170, 168,  
172) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 2.336, 309.123 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 168, 172) }
```

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

```
.background{ background-color: rgb(170,  
168, 172) }
```

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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