

# Converting Colors

CIELCh(68, 3.946, 301.479)

Have a look what the booklet for  
CIELCh(68, 3.946, 301.479) contains.

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# **Color**

**CIELCh(68, 3.943, 301.489)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A7A5AC
RGB	167, 165, 172
RGB Percent	65%, 65%, 67%
CMY	0.3461, 0.3539, 0.3265
CMYK	0.03, 0.04, 0.00, 0.33
HSL	257°, 4%, 66%
HSV	257°, 4%, 67%
XYZ	36.7107, 37.9720, 44.2921
YIQ	166.3960, -1.0550, 2.6010

# Conversions

## Conversions Part 2

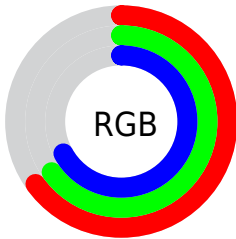
<b>Format</b>	<b>Color</b>
<b>RYB</b>	167, 165, 172
Decimal	10986924
CIELab	68.00, 2.06, -3.36
CIELCh	68, 3.943, 301.489
Yxy	37.9720, 0.3086, 0.3192
Android (android.graphics.Color)	4289177004 (0xFFA7A5AC)
YUV	166.3960, 2.7628, 0.5297
Hunter-Lab	61.6215, -1.4970, 0.5187

# Details

The CIELCh color **68, 3.943, 301.489** is a light color, and the websafe version is hex **999999**. A complement of this color would be **70, 3.896, 121.031**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 3.740, 301.431**, and **48, 4.220, 301.587** is the 20% darker color. If you saturate the color by 10%, you get **62, 13.843, 302.122**, and if you desaturate by 10%, it is **74, 5.613, 120.940**.

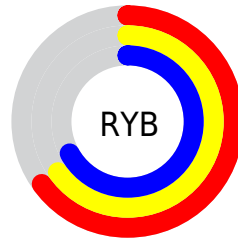
# Distribution



Red (65%)

Green (65%)

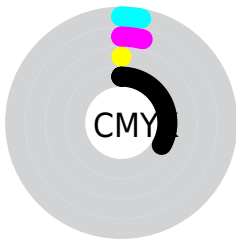
Blue (67%)



Red (65%)

Yellow (65%)

Blue (67%)

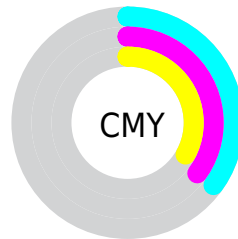


Cyan (3%)

Magenta (4%)

Yellow (0%)

Black (33%)



Cyan (35%)

Magenta (35%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 68, 3.943, 301.489 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 68, 3.943, 301.489 by changing the saturation by 10% instead.



■ 68, 3.943, 301.489

■ 68, 3.943, 301.489

■ 100, 3.943,  
301.489

■ 58, 3.943, 301.489

■ 88, 3.943, 301.489

■ 48, 3.943, 301.489

■ 98, 3.943, 301.489

■ 38, 3.943, 301.489

■ 28, 3.943, 301.489

■ 18, 3.943, 301.489

■ 8, 3.943, 301.489

■ 0, 3.943, 301.489

■ 68, 3.943, 301.489

■ 68, 3.943, 301.489

■ 62, 13.843,

■ 74, 5.613, 120.940

302.122

79, 14.835,  
120.453

57, 24.098,  
302.846

84, 23.741,  
120.036

51, 34.696,  
303.657

90, 32.352,  
119.676

46, 45.589,  
304.549

95, 40.684,  
119.366

41, 56.656,  
305.498

97, 42.111,  
114.700

35, 67.636,  
306.451

98, 41.701,  
108.254

31, 78.042,  
307.315

98, 41.688,  
106.995

27, 87.064,  
307.941

24, 93.656,  
308.148



# Harmonies

# Complementary

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



68, 3.943, 301.489



70, 3.896, 121.031

# Rectangle

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



68, 3.943, 301.489



68, 3.943, 351.489



68, 3.943, 121.489



68, 3.943, 171.489

# Sweetspot

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



68, 3.941, 301.478



89, 1.204, 301.271



69, 2.147, 229.960



47, 0.684, 301.266



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



68, 3.941, 301.478



86, 6.022, 301.541



68, 4.393, 318.443



35, 3.320, 301.572



19, 87.650, 308.284



1, 11.516, 299.251



# Inverse Universe

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



68, 3.838, 333.893



86, 5.860, 333.976



70, 4.369, 138.177



35, 3.229, 334.014



33, 63.049, 343.500

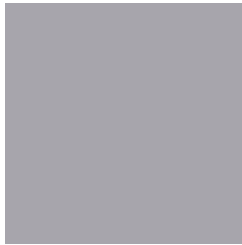


2, 10.623, 337.426



# Previews

## White Background



This preview shows how the CIELCh color 68, 3.943, 301.489 looks on a white background.

## Color Contrast Check

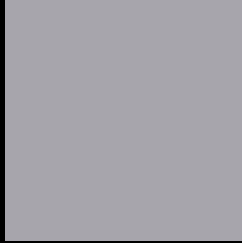
Large Text (above 18pt) WCAG AA × Fail

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 68, 3.943, 301.489 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

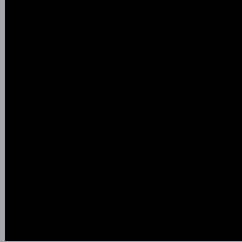
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

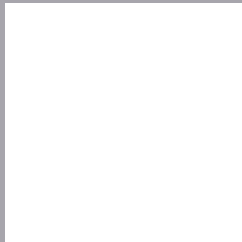
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 68, 3.943, 301.489**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 3.943, 301.489.



This preview shows how white text looks on a background with the CIELCh color 68, 3.943, 301.489.

# 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

68, 3.943, 301.489


### Protanopia

68, 3.943, 301.489

### Deuteranopia

68, 9.513, 336.334





**Tritanopia**  
68, 7.342, 302.503

# Trichromacy



**Original Color**  
68, 3.943, 301.489

**Protanomaly**  
68, 3.943, 301.489

**Deuteranomaly**  
68, 7.825, 329.371

**Tritanomaly**  
68, 6.267, 304.485

# Monochromacy



**Original Color**  
68, 3.943, 301.489

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 1.108, 290.341

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 3.943, 301.489 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(167, 165, 172)` looks like.

```
.text, #text, p{  
    color:rgb(167, 165, 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(167, 165, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 165, 172) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 3.943, 301.489 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(167, 165, 172) }
```

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

```
.border{ border-color:rgb(167, 165, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(167, 165, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 165, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 165, 172);  
box-shadow:4px 4px 4px 4px rgb(167, 165,  
172) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 3.943, 301.489 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 165, 172) }
```

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

```
.background{ background-color: rgb(167,  
165, 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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