

# Converting Colors

CIELCh(67, 13.598, 311.519)

Have a look what the booklet for  
CIELCh(67, 13.598, 311.519)  
contains.

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# Color

**CIELCh(67, 13.657, 311.846)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AB9EB5
RGB	171, 158, 181
RGB Percent	67%, 62%, 71%
CMY	0.3279, 0.3789, 0.2887
CMYK	0.06, 0.13, 0.00, 0.29
HSL	274°, 14%, 67%
HSV	274°, 13%, 71%
XYZ	37.5460, 36.6320, 49.0119
YIQ	164.5090, 0.3650, 9.9090

# Conversions

## Conversions Part 2

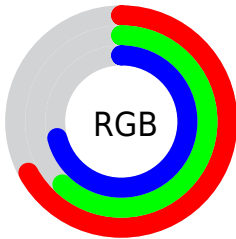
<b>Format</b>	<b>Color</b>
<b>RYB</b>	171, 158, 181
Decimal	11247285
CIELab	67.00, 9.11, -10.17
CIELCh	67, 13.657, 311.846
Yxy	36.6320, 0.3048, 0.2974
Android (android.graphics.Color)	4289437365 (0xFFAB9EB5)
YUV	164.5090, 8.1301, 5.6926
Hunter-Lab	60.5244, 4.8140, -5.6453

# Details

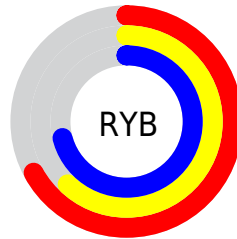
The CIELCh color  $67, 13.657, 311.846$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $72, 13.453, 130.783$ , and the grayscale version is  $68, 0.008, 296.813$ .

A 20% lighter version of the original color is  $87, 13.439, 310.941$ , and  $47, 13.357, 312.200$  is the 20% darker color. If you saturate the color by 10%, you get  $62, 24.717, 312.309$ , and if you desaturate by 10%, it is  $72, 2.857, 311.379$ .

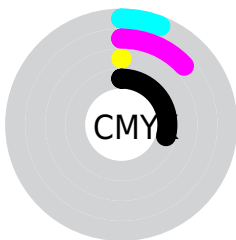
# Distribution



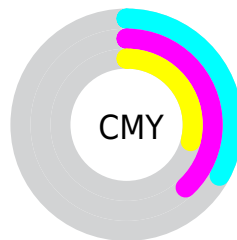
- Red (67%)
- Green (62%)
- Blue (71%)



- Red (67%)
- Yellow (62%)
- Blue (71%)



- Cyan (6%)
- Magenta (13%)
- Yellow (0%)
- Black (29%)




- Cyan (33%)
- Magenta (38%)
- Yellow (29%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 67, 13.657, 311.846 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, 13.657, 311.846 by changing the saturation by 10% instead.




 67, 13.657,  
311.846


 67, 13.657,  
311.846


 100, 13.657,  
311.846


 57, 13.657,  
311.846


 87, 13.657,  
311.846

 47, 13.657,  
311.846

 97, 13.657,  
311.846

 37, 13.657,  
311.846

 27, 13.657,  
311.846

 17, 13.657,  
311.846

 7, 13.657, 311.846

 0, 13.657, 311.846

67, 13.657,  
311.846

67, 13.657,  
311.846

62, 24.717,  
312.309

72, 2.857, 311.379

56, 35.973,  
312.788

78, 7.643, 131.047

51, 47.294,  
313.267

83, 17.834,  
130.680

46, 58.460,  
313.712

89, 27.716,  
130.358

42, 69.122,  
314.076

94, 37.297,  
130.074

38, 78.767,  
314.291

96, 39.615,  
127.469

34, 86.735,  
314.268

96, 38.642,  
123.491

31, 92.365,

97, 37.869,  
119.257

313.912

98, 37.323,  
114.806

30, 95.265,  
313.497

# Harmonies

# Complementary

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



67, 13.657, 311.846



72, 13.453, 130.783

# Rectangle

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



67, 13.657, 311.846



67, 13.657, 1.846



67, 13.657, 131.846



67, 13.657, 181.846

# Sweetspot

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



67, 13.655, 311.845



90, 5.253, 311.452



69, 7.816, 262.387



47, 3.733, 311.488



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



67, 13.655, 311.845



83, 19.968, 311.962



68, 14.832, 326.495



36, 6.134, 311.694



25, 84.958, 313.630



2, 16.140, 307.161



# Inverse Universe

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



67, 10.392, 348.414



84, 15.199, 348.669



72, 14.811, 145.054



36, 4.666, 348.088



33, 58.369, 7.569

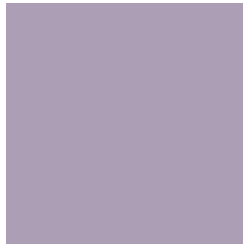


2, 11.804, 354.488



# Previews

## White Background



This preview shows how the CIELCh color 67, 13.657, 311.846 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 67, 13.657, 311.846 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

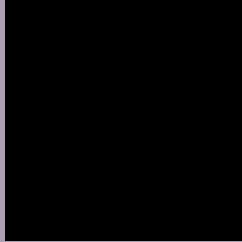
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 67, 13.657, 311.846

## Background



This preview shows how black text looks on a background with the CIELCh color 67, 13.657, 311.846.



This preview shows how white text looks on a background with the CIELCh color 67, 13.657, 311.846.

# 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, 13.657, 311.846


### Protanopia

67, 12.168, 288.058

### Deuteranopia

67, 12.878, 309.604





**Tritanopia**  
67, 7.660, 320.084

# Trichromacy



**Original Color**  
67, 13.657, 311.846

**Protanomaly**  
67, 12.236, 296.503

**Deuteranomaly**  
67, 12.999, 311.154

**Tritanomaly**  
67, 9.963, 317.661

# Monochromacy



**Original Color**  
67, 13.657, 311.846

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 4.686, 309.247

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 67, 13.657, 311.846 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(171, 158, 181)` looks like.

```
.text, #text, p{  
    color:rgb(171, 158, 181)  
}
```

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(171, 158, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 158, 181) }
```

## Border

The CSS property to change the border of an element to CIELCh 67, 13.657, 311.846 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(171, 158, 181) }
```

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

```
.border{ border-color:rgb(171, 158, 181) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 158, 181)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 158, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 158, 181);  
box-shadow:4px 4px 4px 4px rgb(171, 158,  
181) }
```

# Background

The CSS property to change the background color of an element to CIELCh 67, 13.657, 311.846 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 158, 181) }
```

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

```
.background{ background-color: rgb(171,  
158, 181) }
```

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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