

# Converting Colors

CIELCh(67, 13.594, 175.780)

Have a look what the booklet for  
CIELCh(67, 13.594, 175.780)  
contains.

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# **Color**

**CIELCh(67, 13.508, 176.618)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88AAA1
RGB	136, 170, 161
RGB Percent	53%, 67%, 63%
CMY	0.4661, 0.3327, 0.3680
CMYK	0.20, 0.00, 0.05, 0.33
HSL	164°, 17%, 60%
HSV	164°, 20%, 67%
XYZ	31.0271, 36.6320, 39.2234
YIQ	158.8080, -17.3750, -10.0070

# Conversions

## Conversions Part 2

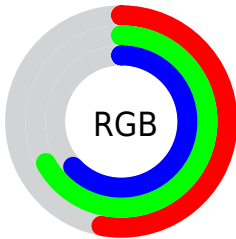
<b>Format</b>	<b>Color</b>
<b>RYB</b>	136, 156, 170
Decimal	8956577
CIELab	67.00, -13.48, 0.80
CIELCh	67, 13.508, 176.618
Yxy	36.6320, 0.2903, 0.3427
Android (android.graphics.Color)	4287146657 (0xFF88AAA1)
YUV	158.8080, 1.0807, -20.0026
Hunter-Lab	60.5244, -14.4116, 3.9436

# Details

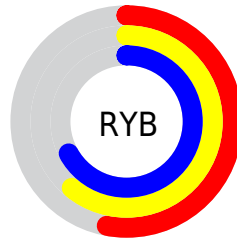
The CIELCh color **67, 13.508, 176.618** is a light color, and the websafe version is hex **669999**. A complement of this color would be **60, 14.408, 0.445**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **87, 13.209, 177.583**, and **47, 13.659, 177.540** is the 20% darker color. If you saturate the color by 10%, you get **66, 19.934, 175.573**, and if you desaturate by 10%, it is **68, 6.827, 177.607**.

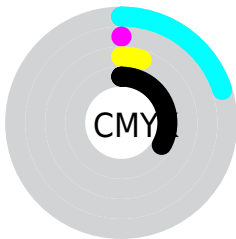
# Distribution



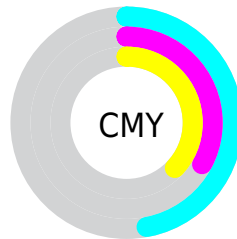
- Red (53%)
- Green (67%)
- Blue (63%)



- Red (53%)
- Yellow (61%)
- Blue (67%)



- Cyan (20%)
- Magenta (0%)
- Yellow (5%)
- Black (33%)




- Cyan (47%)
- Magenta (33%)
- Yellow (37%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 67, 13.508, 176.618 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, 13.508, 176.618 by changing the saturation by 10% instead.





 67, 13.508,  
176.618


 67, 13.508,  
176.618


 100, 13.508,  
176.618


 57, 13.508,  
176.618


 87, 13.508,  
176.618

 47, 13.508,  
176.618

 97, 13.508,  
176.618

 37, 13.508,  
176.618

 27, 13.508,  
176.618

 17, 13.508,  
176.618

 7, 13.508, 176.618

 0, 13.508, 176.618

67, 13.508,  
176.618

67, 13.508,  
176.618

66, 19.934,  
175.573

68, 6.827, 177.607

65, 25.994,  
174.453

70, 0.016, 329.985

64, 31.576,  
173.232

71, 6.932, 359.239

63, 36.575,  
171.888

75, 20.745, 0.874

63, 40.905,  
170.396

76, 27.548, 1.626

62, 44.518,  
168.734

78, 34.151, 2.277


62, 47.417,  
166.886

79, 34.769,  
358.482

62, 49.781,

79, 35.548,  
354.847

164.917

 62, 49.785,  
164.915

# Harmonies

# Complementary

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



67, 13.508, 176.618



60, 14.408, 0.445

# Rectangle

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



67, 13.508, 176.618



67, 13.508, 226.618



67, 13.508, 356.618



67, 13.508, 46.618

# Sweetspot

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



67, 13.509, 176.614



87, 5.106, 178.003



67, 21.122, 135.870



47, 3.412, 177.937



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



67, 13.509, 176.614



85, 19.995, 176.160



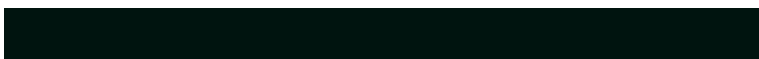
65, 10.181, 224.502



35, 3.837, 177.677



54, 44.740, 165.175



5, 7.353, 173.516



# Inverse Universe

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



60, 14.408, 0.445



74, 21.653, 0.992



62, 11.543, 42.771



33, 3.953, 359.251



30, 59.088, 23.116



1, 6.951, 1.145



# Previews

## White Background



This preview shows how the CIELCh color 67, 13.508, 176.618 looks on a white background.

## Color Contrast Check

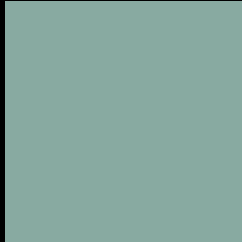
Large Text (above 18pt) WCAG AA × Fail

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, 13.508, 176.618 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

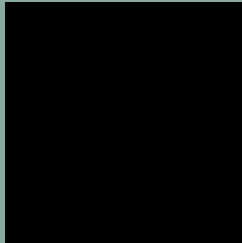
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 67, 13.508, 176.618**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 67, 13.508, 176.618.



This preview shows how white text looks on a background with the CIELCh color 67, 13.508, 176.618.

# 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, 13.508, 176.618

**Protanopia**  
67, 3.348, 74.611

**Deuteranopia**  
67, 8.966, 354.758





**Tritanopia**  
67, 12.003, 239.136

# Trichromacy



**Original Color**  
67, 13.508, 176.618

**Protanomaly**  
67, 4.785, 155.351

**Deuteranomaly**  
67, 0.681, 324.150

**Tritanomaly**  
67, 10.737, 216.694

# Monochromacy



**Original Color**  
67, 13.508, 176.618

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
66, 4.833, 178.948

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 67, 13.508, 176.618 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(136, 170, 161)` looks like.

```
.text, #text, p{  
    color:rgb(136, 170, 161)  
}
```

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(136, 170, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 170, 161) }
```

## Border

The CSS property to change the border of an element to CIELCh 67, 13.508, 176.618 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(136, 170, 161) }
```

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

```
.border{ border-color:rgb(136, 170, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 170, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 170, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 170, 161);  
box-shadow:4px 4px 4px 4px rgb(136, 170,  
161) }
```

# Background

The CSS property to change the background color of an element to CIELCh 67, 13.508, 176.618 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 170, 161) }
```

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

```
.background{ background-color: rgb(136,  
170, 161) }
```

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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