

# Converting Colors

CIELCh(67, 13.817, 177.121)

Have a look what the booklet for  
CIELCh(67, 13.817, 177.121)  
contains.

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# **Color**

**CIELCh(67, 13.830, 177.110)**

# Conversions

## Conversions Part 1

Format	Color
Hex	87AAA1
RGB	135, 170, 161
RGB Percent	53%, 67%, 63%
CMY	0.4694, 0.3321, 0.3674
CMYK	0.21, 0.00, 0.05, 0.33
HSL	165°, 17%, 60%
HSV	165°, 21%, 67%
XYZ	30.9386, 36.6320, 39.3058
YIQ	158.5090, -17.9710, -10.2190

# Conversions

## Conversions Part 2

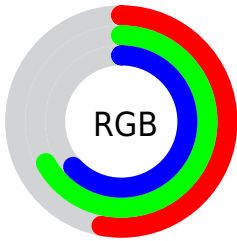
<b>Format</b>	<b>Color</b>
<b>RYB</b>	135, 155, 170
Decimal	8891041
CIELab	67.00, -13.81, 0.70
CIELCh	67, 13.830, 177.110
Yxy	36.6320, 0.2895, 0.3428
Android (android.graphics.Color)	4287081121 (0xFF87AAA1)
YUV	158.5090, 1.2281, -20.6174
Hunter-Lab	60.5244, -14.6728, 3.8629

# Details

The CIELCh color **67, 13.830, 177.110** is a light color, and the websafe version is hex **669999**. A complement of this color would be **60, 14.805, 1.059**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **87, 13.524, 178.061**, and **47, 13.988, 177.993** is the 20% darker color. If you saturate the color by 10%, you get **66, 20.205, 176.067**, and if you desaturate by 10%, it is **68, 7.189, 178.097**.

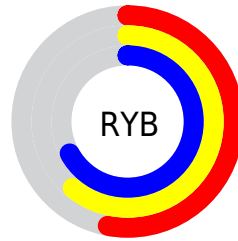
# Distribution



Red (53%)

Green (67%)

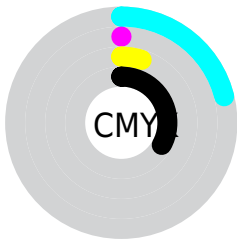
Blue (63%)



Red (53%)

Yellow (61%)

Blue (67%)

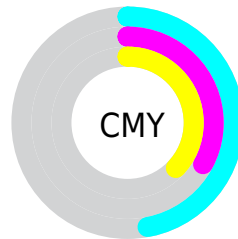


Cyan (21%)

Magenta (0%)

Yellow (5%)

Black (33%)



Cyan (47%)

Magenta (33%)


Yellow (37%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 67, 13.830, 177.110 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, 13.830, 177.110 by changing the saturation by 10% instead.





 67, 13.830,  
177.110


 67, 13.830,  
177.110


 100, 13.830,  
177.110


 57, 13.830,  
177.110


 87, 13.830,  
177.110

 47, 13.830,  
177.110

 97, 13.830,  
177.110

 37, 13.830,  
177.110

 27, 13.830,  
177.110

 17, 13.830,  
177.110

 7, 13.830, 177.110

 0, 13.830, 177.110

67, 13.830,  
177.110

67, 13.830,  
177.110

66, 20.205,  
176.067

68, 7.189, 178.097

65, 26.201,  
174.949

70, 0.378, 180.097

71, 6.520, 359.731

64, 31.709,  
173.731

73, 13.435, 0.583

63, 36.623,  
172.391

75, 20.315, 1.376

76, 27.119, 2.132

63, 40.861,  
170.905

78, 33.819, 2.857

62, 44.377,  
169.250

79, 34.554,  
359.252

62, 47.180,  
167.412

79, 35.279,  
355.674

62, 49.347,

165.570

# Harmonies

# Complementary

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



67, 13.830, 177.110



60, 14.805, 1.059

# Rectangle

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



67, 13.830, 177.110



67, 13.830, 227.110



67, 13.830, 357.110



67, 13.830, 47.110

# Sweetspot

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



67, 13.831, 177.106



87, 5.085, 178.549



67, 21.744, 135.840



47, 3.399, 178.483



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, 13.831, 177.106



84, 20.693, 176.606



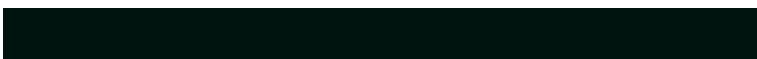
65, 10.463, 224.542



35, 3.821, 178.224



54, 44.318, 165.829



5, 7.317, 174.083



# Inverse Universe

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



60, 14.805, 1.059



74, 22.538, 1.670



62, 11.909, 42.760



33, 3.939, 359.795



30, 59.326, 23.761



1, 6.931, 1.629



# Previews

## White Background



This preview shows how the CIELCh color 67, 13.830, 177.110 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, 13.830, 177.110 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

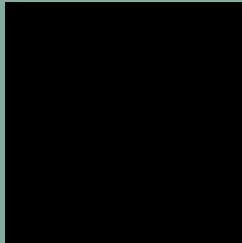
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 67, 13.830, 177.110**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 67, 13.830, 177.110.



This preview shows how white text looks on a background with the CIELCh color 67, 13.830, 177.110.

# 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, 13.830, 177.110

**Protanopia**  
67, 3.348, 74.611

**Deuteranopia**  
67, 8.966, 354.758





**Tritanopia**  
67, 12.256, 238.124

# Trichromacy



**Original Color**  
67, 13.830, 177.110

**Protanomaly**  
67, 5.065, 158.247

**Deuteranomaly**  
67, 0.561, 290.334

**Tritanomaly**  
67, 11.056, 216.132

# Monochromacy



**Original Color**  
67, 13.830, 177.110

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
66, 5.182, 180.309

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 67, 13.830, 177.110 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(135, 170, 161)` looks like.

```
.text, #text, p{  
    color:rgb(135, 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(135, 170, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 170, 161) }
```

## Border

The CSS property to change the border of an element to CIELCh 67, 13.830, 177.110 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(135, 170, 161) }
```

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

```
.border{ border-color:rgb(135, 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(135, 170, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 170, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 170, 161);  
box-shadow:4px 4px 4px 4px rgb(135, 170,  
161) }
```

# Background

The CSS property to change the background color of an element to CIELCh 67, 13.830, 177.110 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 170, 161) }
```

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

```
.background{ background-color: rgb(135,  
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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