

# Converting Colors

CIELCh(66, 16.058, 196.976)

Have a look what the booklet for  
CIELCh(66, 16.058, 196.976)  
contains.

<b>CIELCh(66, 16.140, 196.077)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# **Color**

**CIELCh(66, 16.140, 196.077)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BA9A8
RGB	123, 169, 168
RGB Percent	48%, 66%, 66%
CMY	0.5184, 0.3380, 0.3419
CMYK	0.27, 0.00, 0.01, 0.34
HSL	179°, 21%, 57%
HSV	179°, 27%, 66%
XYZ	29.3458, 35.3238, 42.2260
YIQ	155.1320, -27.0950, -10.0630

# Conversions

## Conversions Part 2

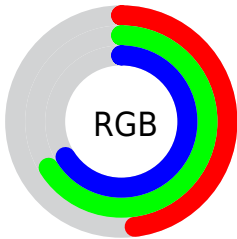
Format	Color
R <sub>Y</sub> B	123, 146, 169
Decimal	8104360
CIE Lab	66.00, -15.51, -4.47
CIE LCh	66, 16.140, 196.077
Yxy	35.3238, 0.2745, 0.3305
Android (android.graphics.Color)	4286294440 (0xFF7BA9A8)
YUV	155.1320, 6.3439, -28.1798
Hunter-Lab	59.4338, -15.8740, -0.5201

# Details

The CIELCh color **66, 16.140, 196.077** is a light color, and the websafe version is hex **669999**. A complement of this color would be **56, 19.202, 19.863**, and the grayscale version is **64, 0.008, 296.813**.

A 20% lighter version of the original color is **86, 15.948, 196.440**, and **46, 16.249, 195.515** is the 20% darker color. If you saturate the color by 10%, you get **65, 21.234, 195.556**, and if you desaturate by 10%, it is **67, 10.544, 196.633**.

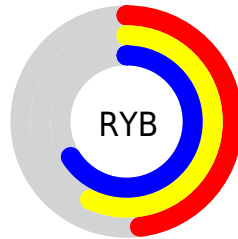
# Distribution



Red (48%)

Green (66%)

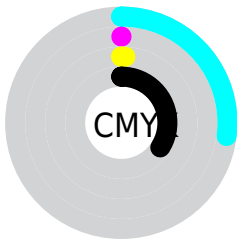
Blue (66%)



Red (48%)

Yellow (57%)

Blue (66%)

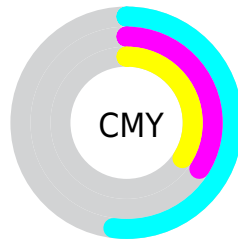


Cyan (27%)

Magenta (0%)

Yellow (1%)

Black (34%)



Cyan (52%)

Magenta (34%)


Yellow (34%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 66, 16.140, 196.077 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 66, 16.140, 196.077 by changing the saturation by 10% instead.





 66, 16.140,  
196.077


 66, 16.140,  
196.077


 100, 16.140,  
196.077


 56, 16.140,  
196.077


 86, 16.140,  
196.077

 46, 16.140,  
196.077

 96, 16.140,  
196.077

 36, 16.140,  
196.077

 26, 16.140,  
196.077

 16, 16.140,  
196.077

 6, 16.140, 196.077

 0, 16.140, 196.077

66, 16.140,  
196.077

66, 16.140,  
196.077

65, 21.234,  
195.556

67, 10.544,  
196.633

64, 25.726,  
195.079

68, 4.544, 197.268

70, 1.763, 17.485

64, 29.530,  
194.642

71, 8.292, 18.319

63, 32.583,  
194.242

73, 14.968, 18.977

63, 34.857,  
193.875

74, 21.731, 19.626

76, 28.531, 20.274

63, 36.367,  
193.534

78, 34.171, 20.755

63, 37.215,  
193.208

78, 34.147, 20.433

63, 37.408,



# Harmonies

# Complementary

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



66, 16.140, 196.077



56, 19.202, 19.863

# Rectangle

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



66, 16.140, 196.077



66, 16.140, 246.077



66, 16.140, 16.077



66, 16.140, 66.077

# Sweetspot

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



66, 16.141, 196.073



86, 6.193, 197.204



65, 30.810, 141.816



45, 4.380, 197.104



94, 0.011, 296.813



46, 0.006, 296.813





# Same Dimension

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



66, 16.141, 196.073



83, 23.624, 195.740



60, 14.564, 255.709



35, 3.523, 197.126



55, 33.937, 193.155



5, 6.582, 196.868



# Inverse Universe

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



56, 19.202, 19.863



68, 29.416, 20.658



62, 15.915, 68.543



33, 3.723, 18.142



30, 68.247, 38.491



1, 6.577, 17.844



# Previews

## White Background



This preview shows how the CIELCh color 66, 16.140, 196.077 looks on a white background.

## Color Contrast Check

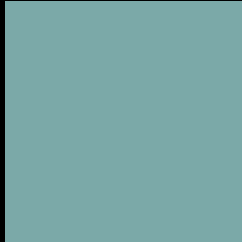
Large Text (above 18pt) WCAG AA × Fail

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 66, 16.140, 196.077 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

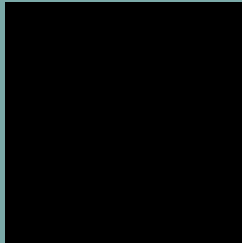
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 66, 16.140, 196.077**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 66, 16.140, 196.077.

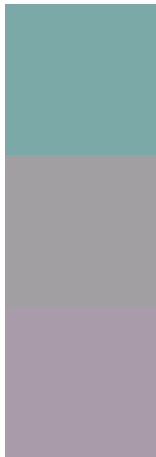


This preview shows how white text looks on a background with the CIELCh color 66, 16.140, 196.077.

# 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**  
66, 16.140, 196.077

**Protanopia**  
66, 2.034, 324.433

**Deuteranopia**  
66, 10.564, 323.203





**Tritanopia**  
66, 15.468, 226.327

# Trichromacy



**Original Color**  
66, 16.140, 196.077

**Protanomaly**  
66, 5.573, 204.727

**Deuteranomaly**  
66, 6.068, 265.695

**Tritanomaly**  
66, 15.282, 215.225

# Monochromacy



**Original Color**  
66, 16.140, 196.077

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
65, 6.313, 198.914

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 16.140, 196.077 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(123, 169, 168)` looks like.

```
.text, #text, p{  
    color:rgb(123, 169, 168)  
}
```

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(123, 169, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 169, 168) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 16.140, 196.077 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(123, 169, 168) }
```

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

```
.border{ border-color:rgb(123, 169, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 169, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 169, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 169, 168);  
box-shadow:4px 4px 4px 4px rgb(123, 169,  
168) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 16.140, 196.077 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 169, 168) }
```

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

```
.background{ background-color: rgb(123,  
169, 168) }
```

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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