

Converting Colors

CIELCh(63, 48.930, 158.953)

Have a look what the booklet for
CIELCh(63, 48.930, 158.953)
contains.

CIELCh(63, 48.698, 159.126)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(63, 48.698, 159.126)

Conversions

Conversions Part 1

Format	Color
Hex	33AC78
RGB	51, 172, 120
RGB Percent	20%, 67%, 47%
CMY	0.7997, 0.3253, 0.5292
CMYK	0.70, 0.00, 0.30, 0.33
HSL	154°, 54%, 44%
HSV	154°, 70%, 67%
XYZ	19.5237, 31.5869, 22.8520
YIQ	129.8930, -55.4240, -41.8240

Conversions

Conversions Part 2

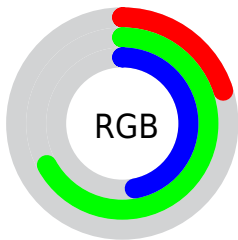
Format	Color
RYB	51, 128, 172
Decimal	3386488
CIELab	63.00, -45.50, 17.35
CIELCh	63, 48.698, 159.126
Yxy	31.5869, 0.2640, 0.4271
Android (android.graphics.Color)	4281576568 (0xFF33AC78)
YUV	129.8930, -4.8772, -69.1892
Hunter-Lab	56.2022, -36.3460, 15.2341

Details

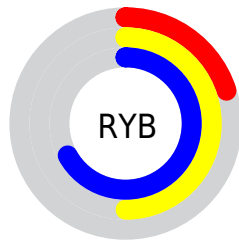
The CIELCh color **63, 48.698, 159.126** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **41, 53.177, 357.641**, and the grayscale version is **54, 0.007, 296.813**.

A 20% lighter version of the original color is **83, 48.705, 158.962**, and **44, 44.790, 155.527** is the 20% darker color. If you saturate the color by 10%, you get **63, 53.600, 157.264**, and if you desaturate by 10%, it is **64, 43.096, 160.783**.

Distribution



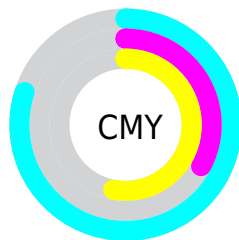
- Red (20%)
- Green (67%)
- Blue (47%)



- Red (20%)
- Yellow (50%)
- Blue (67%)



- Cyan (70%)
- Magenta (0%)
- Yellow (30%)
- Black (33%)





- Cyan (80%)
- Magenta (33%)
- Yellow (53%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 63, 48.698, 159.126 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 63, 48.698, 159.126 by changing the saturation by 10% instead.


 63, 48.698,
159.126

 63, 48.698,
159.126

 100, 48.698,
159.126

 53, 48.698,
159.126


 83, 48.698,
159.126

 43, 48.698,
159.126

 93, 48.698,
159.126

 33, 48.698,
159.126

 23, 48.698,
159.126

 13, 48.698,
159.126

 3, 48.698, 159.126

 0, 48.698, 159.126

■ 63, 48.698,
159.126

■ 63, 48.698,
159.126

■ 63, 53.600,
157.264

■ 64, 43.096,
160.783

■ 62, 57.785,
155.196

■ 64, 36.863,
162.255

■ 62, 61.312,
153.091

■ 65, 30.103,
163.564

■ 66, 22.942,
164.734

■ 67, 15.502,
165.791

■ 69, 7.901, 166.765

■ 70, 0.237, 169.210

■ 72, 7.408, 348.333

■ 74, 14.971,
349.101

Harmonies

Complementary

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



63, 48.698, 159.126



41, 53.177, 357.641

Rectangle

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



63, 48.698, 159.126



63, 48.698, 209.126



63, 48.698, 339.126



63, 48.698, 29.126

Sweetspot

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



63, 48.698, 159.126



86, 19.875, 165.684



64, 67.521, 128.532



45, 13.410, 165.410



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



63, 48.698, 159.126



80, 68.110, 156.217



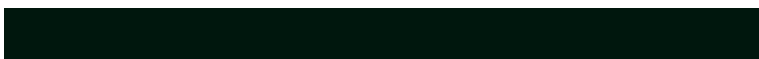
62, 31.145, 205.332



36, 4.364, 166.861



55, 55.261, 153.363



6, 9.879, 162.325

Inverse Universe

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



41, 53.177, 357.641



50, 72.771, 2.366



41, 54.657, 33.364



34, 4.436, 348.374



32, 56.968, 7.889



2, 8.805, 352.546

Previews

White Background



This preview shows how the CIE LCh color 63, 48.698, 159.126 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 63, 48.698, 159.126 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

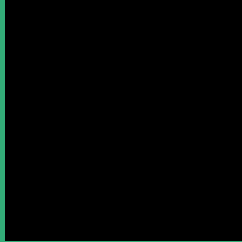
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

CIELCh 63, 48.698, 159.126

Background



This preview shows how black text looks on a background with the CIELCh color 63, 48.698, 159.126.

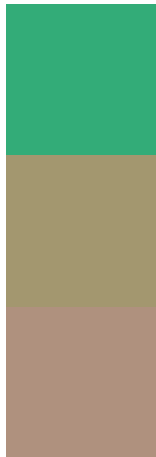


This preview shows how white text looks on a background with the CIELCh color 63, 48.698, 159.126.

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
63, 48.698, 159.126

Protanopia
63, 22.790, 94.727

Deuteranopia
62, 16.559, 59.730



Tritanopia
63, 27.276, 212.930

Trichromacy



Original Color
63, 48.698, 159.126



Protanomaly
62, 29.098, 137.991



Deuteranomaly
61, 20.031, 138.038

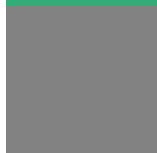


Tritanomaly
63, 32.161, 185.560

Monochromacy



Original Color
63, 48.698, 159.126



Achromatopsia
54, 0.007, 296.813



Achromatomaly
57, 20.009, 164.664

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 63, 48.698, 159.126 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(51, 172, 120)` looks like.

```
.text, #text, p{  
    color:rgb(51, 172, 120)  
}
```

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(51, 172, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 172, 120) }
```

Border

The CSS property to change the border of an element to CIELCh 63, 48.698, 159.126 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(51, 172, 120) }
```

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

```
.border{ border-color:rgb(51, 172, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 172, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 172, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 172, 120);  
box-shadow:4px 4px 4px 4px rgb(51, 172,  
120) }
```

Background

The CSS property to change the background color of an element to CIELCh 63, 48.698, 159.126 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 172, 120) }
```

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

```
.background{ background-color: rgb(51, 172,  
120) }
```

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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