

Converting Colors

CIELCh(55, 72.760, 176.957)

Have a look what the booklet for
CIELCh(55, 72.760, 176.957)
contains.

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Color

CIELCh(58, 45.029, 168.498)

Conversions

Conversions Part 1

Format	Color
Hex	009E7A
RGB	0, 158, 122
RGB Percent	0%, 62%, 48%
CMY	1.0000, 0.3791, 0.5201
CMYK	1.00, 0.00, 0.23, 0.38
HSL	166°, 100%, 31%
HSV	166°, 100%, 62%
XYZ	15.7860, 25.9610, 22.7093
YIQ	106.6540, -82.6120, -44.6920

Conversions

Conversions Part 2

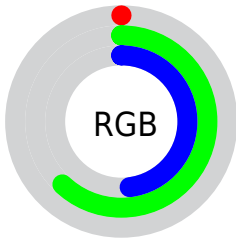
Format	Color
RYB	0, 89, 158
Decimal	40570
CIELab	58.00, -44.12, 8.98
CIELCh	58, 45.029, 168.498
Yxy	25.9610, 0.2449, 0.4028
Android (android.graphics.Color)	4278230650 (0xFF009E7A)
YUV	106.6540, 7.5656, -93.5356
Hunter-Lab	50.9519, -33.8627, 9.2407

Details

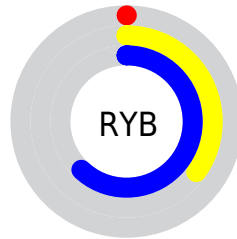
The CIELCh color **58, 45.029, 168.498** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **33, 63.606, 26.620**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **78, 45.213, 167.932**, and **39, 36.293, 162.720** is the 20% darker color. If you saturate the color by 10%, you get **58, 44.923, 168.440**, and if you desaturate by 10%, it is **58, 42.927, 170.264**.

Distribution



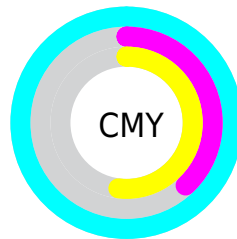
- Red (0%)
- Green (62%)
- Blue (48%)



- Red (0%)
- Yellow (35%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (23%)
- Black (38%)



- Cyan (100%)
- Magenta (38%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 58, 45.029, 168.498 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 58, 45.029, 168.498 by changing the saturation by 10% instead.

 58, 45.029,
168.498

 58, 45.029,
168.498

 100, 45.029,
168.498

 48, 45.029,
168.498

 78, 45.029,
168.498

 38, 45.029,
168.498

 88, 45.029,
168.498

 28, 45.029,
168.498

 98, 45.029,
168.498

 18, 45.029,
168.498

 8, 45.029, 168.498

 0, 45.029, 168.498

■ 58, 45.029,
168.498

■ 58, 45.029,
168.498

■ 58, 44.923,
168.440

■ 58, 42.927,
170.264

■ 58, 40.438,
171.981

■ 59, 37.271,
173.527

■ 59, 33.421,
174.922

■ 60, 28.931,
176.186

■ 61, 23.878,
177.343

■ 62, 18.356,
178.413

■ 63, 12.471,

179.417

■ 64, 6.320, 180.385

Harmonies

Complementary

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



58, 45.029, 168.498



33, 63.606, 26.620

Rectangle

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



58, 45.029, 168.498



58, 45.029, 218.498



58, 45.029, 348.498



58, 45.029, 38.498

Sweetspot

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



58, 44.923, 168.440



79, 22.766, 178.353



57, 81.766, 134.096



41, 15.512, 177.935



92, 0.011, 296.813



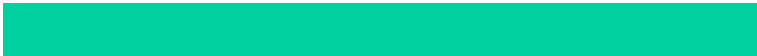
44, 0.006, 296.813

Same Dimension

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



58, 44.923, 168.440



74, 55.032, 168.027



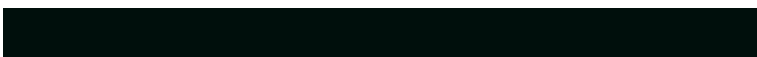
46, 32.558, 249.022



33, 3.572, 180.458



53, 41.552, 168.628



3, 4.805, 178.717

Inverse Universe

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



33, 63.606, 26.620



43, 78.201, 27.809



36, 67.078, 46.290



31, 3.692, 1.992



29, 58.741, 26.070



1, 4.705, 2.079

Previews

White Background



This preview shows how the CIE LCh color 58, 45.029, 168.498 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 58, 45.029, 168.498 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 × Fail

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

CIELCh 58, 45.029, 168.498

Background



This preview shows how black text looks on a background with the CIELCh color 58, 45.029, 168.498.

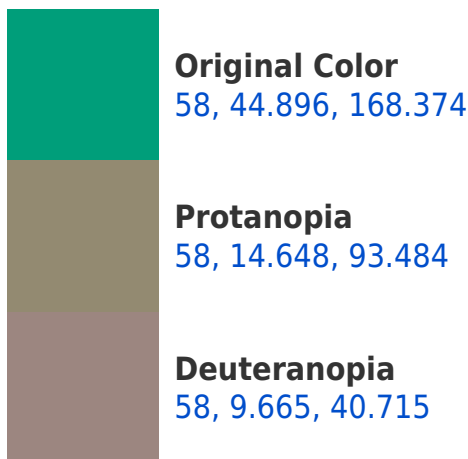


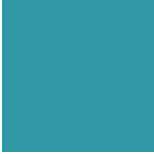
This preview shows how white text looks on a background with the CIELCh color 58, 45.029, 168.498.

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





Tritanopia
58, 29.187, 210.666

Trichromacy



Original Color
58, 44.896, 168.374



Protanomaly
56, 25.732, 157.008



Deuteranomaly
56, 19.363, 167.337



Tritanomaly
58, 33.713, 190.543

Monochromacy



Original Color
58, 44.896, 168.374



Achromatopsia
45, 0.006, 296.813



Achromatomaly
49, 22.407, 177.001

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 58, 45.029, 168.498 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(0, 158, 122)` looks like.

```
.text, #text, p{  
    color:rgb(0, 158, 122)  
}
```

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(0, 158, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 158, 122) }
```

Border

The CSS property to change the border of an element to CIELCh 58, 45.029, 168.498 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(0, 158, 122) }
```

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

```
.border{ border-color:rgb(0, 158, 122) }
```

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

Here you see how a box with a 4 pixel rgb(0, 158, 122) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 158, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 158, 122);  
box-shadow:4px 4px 4px 4px rgb(0, 158,  
122) }
```

Background

The CSS property to change the background color of an element to CIELCh 58, 45.029, 168.498 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 158, 122) }
```

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

```
.background{ background-color: rgb(0, 158,  
122) }
```

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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