

Converting Colors

CIELCh(45, 33.477, 176.374)

Have a look what the booklet for
CIELCh(45, 33.477, 176.374)
contains.

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Color

CIELCh(45, 33.697, 176.066)

Conversions

Conversions Part 1

Format	Color
Hex	007966
RGB	0, 121, 102
RGB Percent	0%, 47%, 40%
CMY	1.0000, 0.5268, 0.6012
CMYK	1.00, 0.00, 0.16, 0.53
HSL	171°, 100%, 24%
HSV	171°, 100%, 47%
XYZ	9.1689, 14.5417, 14.8121
YIQ	82.6550, -66.0170, -31.5610

Conversions

Conversions Part 2

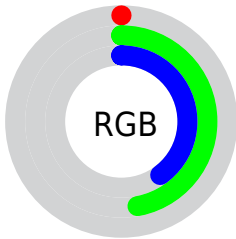
Format	Color
RYB	0, 66, 121
Decimal	31078
CIELab	45.00, -33.62, 2.31
CIELCh	45, 33.697, 176.066
Yxy	14.5417, 0.2380, 0.3775
Android (android.graphics.Color)	4278221158 (0xFF007966)
YUV	82.6550, 9.5371, -72.4884
Hunter-Lab	38.1336, -23.8150, 3.6637

Details

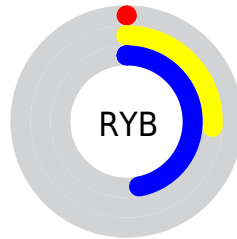
The CIELCh color **45, 33.697, 176.066** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **24, 53.865, 30.357**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 33.555, 176.176**, and **26, 24.818, 170.596** is the 20% darker color. If you saturate the color by 10%, you get **45, 33.642, 176.038**, and if you desaturate by 10%, it is **45, 32.251, 177.432**.

Distribution



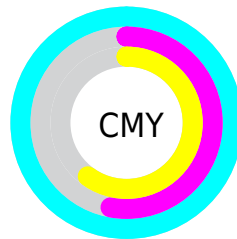
- Red (0%)
- Green (47%)
- Blue (40%)



- Red (0%)
- Yellow (26%)
- Blue (47%)



- Cyan (100%)
- Magenta (0%)
- Yellow (16%)
- Black (53%)





- Cyan (100%)
- Magenta (53%)
- Yellow (60%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 33.697, 176.066 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 45, 33.697, 176.066 by changing the saturation by 10% instead.


 45, 33.697,
176.066


 45, 33.697,
176.066


 100, 33.697,
176.066


 35, 33.697,
176.066

 65, 33.697,
176.066


 25, 33.697,
176.066

 75, 33.697,
176.066

 15, 33.697,
176.066

 85, 33.697,
176.066

 5, 33.697, 176.066

 95, 33.697,
176.066

 0, 33.697, 176.066

 45, 33.697,

 45, 33.697,

176.066

176.066

■ 45, 33.642,
176.038

■ 45, 32.251,
177.432

■ 45, 30.533,
178.781

■ 46, 28.267,
180.007

■ 46, 25.452,
181.130

■ 47, 22.120,
182.168

■ 47, 18.328,
183.140

■ 48, 14.144,
184.060

■ 49, 9.645, 184.945

Harmonies

Complementary

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



45, 33.697, 176.066



24, 53.865, 30.357

Rectangle

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



45, 33.697, 176.066



45, 33.697, 226.066



45, 33.697, 356.066



45, 33.697, 46.066

Sweetspot

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



45, 33.642, 176.038



62, 17.610, 183.992



44, 67.651, 134.691



31, 11.840, 183.686



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



45, 33.642, 176.038



58, 41.126, 175.604



32, 29.166, 259.983



25, 2.800, 185.902



47, 34.517, 175.976



89, 58.694, 175.057

Inverse Universe

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



24, 53.865, 30.357



33, 66.439, 31.804



28, 52.120, 49.973



24, 2.910, 7.262



25, 55.336, 30.567



53, 95.896, 33.512

Previews

White Background



This preview shows how the CIELCh color 45, 33.697, 176.066 looks on a white 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

Black Background



This preview shows how the CIELCh color 45, 33.697, 176.066 looks on a black 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

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

CIELCh 45, 33.697, 176.066

Background



This preview shows how black text looks on a background with the CIELCh color 45, 33.697, 176.066.

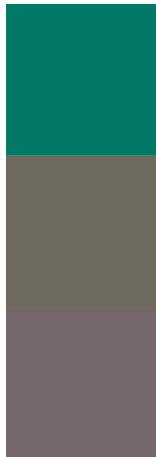


This preview shows how white text looks on a background with the CIELCh color 45, 33.697, 176.066.

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


45, 33.697, 176.066

Protanopia

45, 7.441, 92.342

Deuteranopia

45, 6.113, 3.202



Tritanopia
45, 24.240, 211.406

Trichromacy



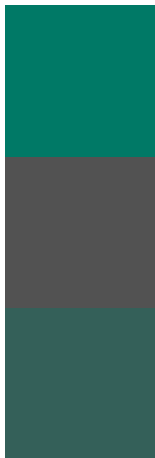
Original Color
45, 33.697, 176.066

Protanomaly
44, 17.807, 169.155

Deuteranomaly
43, 13.757, 185.115

Tritanomaly
45, 26.731, 196.551

Monochromacy



Original Color
45, 33.697, 176.066

Achromatopsia
35, 0.005, 296.813

Achromatomaly
38, 17.150, 182.544

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 33.697, 176.066 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, 121, 102)` looks like.

```
.text, #text, p{  
    color:rgb(0, 121, 102)  
}
```

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, 121, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 121, 102) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 33.697, 176.066 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, 121, 102) }
```

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

```
.border{ border-color:rgb(0, 121, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 121, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 121, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 121, 102);  
box-shadow:4px 4px 4px 4px rgb(0, 121,  
102) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 33.697, 176.066 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 121, 102) }
```

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

```
.background{ background-color: rgb(0, 121,  
102) }
```

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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