

Converting Colors

CIELCh(45, 28.700, 196.569)

Have a look what the booklet for
CIELCh(45, 28.700, 196.569)
contains.

CIELCh(45, 28.529, 196.386)	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(45, 28.529, 196.386)

Conversions

Conversions Part 1

Format	Color
Hex	007777
RGB	0, 119, 119
RGB Percent	0%, 47%, 47%
CMY	0.9993, 0.5331, 0.5331
CMYK	1.00, 0.00, 0.00, 0.53
HSL	180°, 100%, 23%
HSV	180°, 100%, 47%
XYZ	9.9389, 14.5417, 19.7536
YIQ	83.4190, -70.9240, -25.2280

Conversions

Conversions Part 2

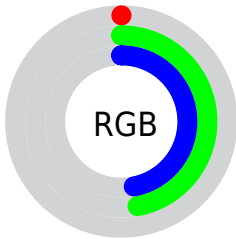
Format	Color
RYB	0, 60, 119
Decimal	30583
CIELab	45.00, -27.37, -8.05
CIELCh	45, 28.529, 196.386
Yxy	14.5417, 0.2247, 0.3287
Android (android.graphics.Color)	4278220663 (0xFF007777)
YUV	83.4190, 17.5414, -73.1585
Hunter-Lab	38.1336, -20.2108, -4.0194

Details

The CIELCh color **45, 28.529, 196.386** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **23, 57.616, 37.701**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 28.693, 195.930**, and **26, 19.586, 198.367** is the 20% darker color. If you saturate the color by 10%, you get **45, 28.539, 196.384**, and if you desaturate by 10%, it is **45, 27.792, 196.459**.

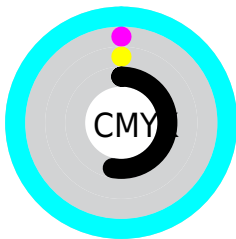
Distribution



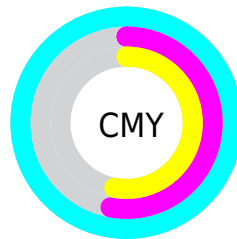
- Red (0%)
- Green (47%)
- Blue (47%)



- Red (0%)
- Yellow (24%)
- Blue (47%)



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



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


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 28.529, 196.386 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, 28.529, 196.386 by changing the saturation by 10% instead.


 45, 28.529,
196.386

 45, 28.529,
196.386


 100, 28.529,
196.386

 35, 28.529,
196.386

 65, 28.529,
196.386


 25, 28.529,
196.386

 75, 28.529,
196.386

 15, 28.529,
196.386

 85, 28.529,
196.386

 5, 28.529, 196.386

 95, 28.529,
196.386

 0, 28.529, 196.386

 45, 28.529,

 45, 28.529,

196.386

196.386

■ 45, 28.539,
196.384

■ 45, 27.792,
196.459

■ 45, 26.717,
196.568

■ 46, 25.087,
196.734

■ 46, 22.889,
196.959

■ 46, 20.137,
197.246

■ 47, 16.871,
197.591

■ 47, 13.150,
197.992

■ 48, 9.039, 198.449

Harmonies

Complementary

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



45, 28.529, 196.386



23, 57.616, 37.701

Rectangle

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



45, 28.529, 196.386



45, 28.529, 246.386



45, 28.529, 16.386



45, 28.529, 66.386

Sweetspot

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



45, 28.529, 196.385



61, 16.392, 197.954



43, 68.058, 135.909



31, 11.126, 197.812



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, 28.529, 196.385



58, 34.644, 196.384



26, 38.275, 280.382



24, 2.606, 199.023



46, 29.111, 196.384



89, 49.354, 196.384

Inverse Universe

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



23, 57.616, 37.701



32, 71.870, 39.598



32, 48.361, 60.793



23, 2.751, 19.863



24, 59.042, 37.988



52, 102.986, 40.000

Previews

White Background



This preview shows how the CIELCh color 45, 28.529, 196.386 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, 28.529, 196.386 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

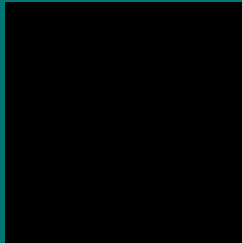
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 28.529, 196.386

Background



This preview shows how black text looks on a background with the CIELCh color 45, 28.529, 196.386.

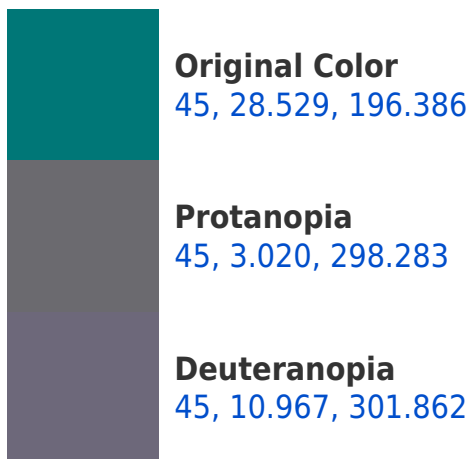


This preview shows how white text looks on a background with the CIELCh color 45, 28.529, 196.386.

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
45, 25.892, 208.911

Trichromacy



Original Color
45, 28.529, 196.386

Protanomaly
44, 15.406, 204.471

Deuteranomaly
44, 15.361, 226.226

Tritanomaly
45, 26.746, 204.433

Monochromacy



Original Color
45, 28.529, 196.386

Achromatopsia
36, 0.005, 296.813

Achromatomaly
38, 15.612, 197.467

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 28.529, 196.386 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, 119, 119)` looks like.

```
.text, #text, p{  
    color:rgb(0, 119, 119)  
}
```

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, 119, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 119, 119) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 28.529, 196.386 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, 119, 119) }
```

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

```
.border{ border-color:rgb(0, 119, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 119, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 119, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 119, 119);  
box-shadow:4px 4px 4px 4px rgb(0, 119,  
119) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 28.529, 196.386 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 119, 119) }
```

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

```
.background{ background-color: rgb(0, 119,  
119) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor