

Converting Colors

CIELCh(40, 70.922, 197.807)

Have a look what the booklet for
CIELCh(40, 70.922, 197.807)
contains.

CIELCh(45, 27.349, 209.440)	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, 27.349, 209.440)

Conversions

Conversions Part 1

Format	Color
Hex	007680
RGB	0, 118, 128
RGB Percent	0%, 46%, 50%
CMY	0.9989, 0.5369, 0.4977
CMYK	1.00, 0.08, 0.00, 0.50
HSL	185°, 100%, 25%
HSV	185°, 100%, 50%
XYZ	10.3954, 14.5417, 22.7136
YIQ	83.8580, -73.5380, -21.9060

Conversions

Conversions Part 2

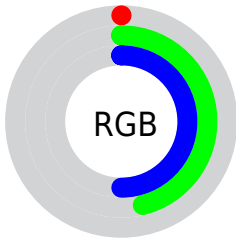
Format	Color
RYB	0, 61, 128
Decimal	30336
CIELab	45.00, -23.82, -13.44
CIELCh	45, 27.349, 209.440
Yxy	14.5417, 0.2182, 0.3052
Android (android.graphics.Color)	4278220416 (0xFF007680)
YUV	83.8580, 21.7620, -73.5435
Hunter-Lab	38.1336, -18.0738, -8.6216

Details

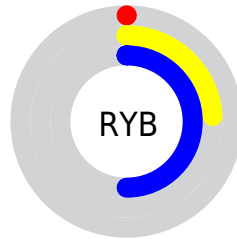
The CIELCh color **45, 27.349, 209.440** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **26, 60.173, 39.880**, and the grayscale version is **36, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 27.353, 209.132**, and **26, 18.885, 217.387** is the 20% darker color. If you saturate the color by 10%, you get **45, 27.360, 209.463**, and if you desaturate by 10%, it is **45, 26.822, 208.390**.

Distribution



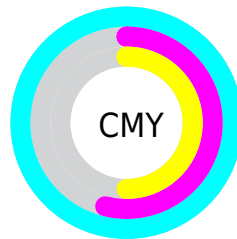
- Red (0%)
- Green (46%)
- Blue (50%)



- Red (0%)
- Yellow (24%)
- Blue (50%)



- Cyan (100%)
- Magenta (8%)
- Yellow (0%)
- Black (50%)




- Cyan (100%)
- Magenta (54%)
- Yellow (50%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 27.349, 209.440 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, 27.349, 209.440 by changing the saturation by 10% instead.

 45, 27.349,
209.440


 45, 27.349,
209.440


 100, 27.349,
209.440


 35, 27.349,
209.440

 65, 27.349,
209.440


 25, 27.349,
209.440

 75, 27.349,
209.440

 15, 27.349,
209.440

 85, 27.349,
209.440

 5, 27.349, 209.440

 95, 27.349,
209.440

 0, 27.349, 209.440

 45, 27.349,

 45, 27.349,

209.440

209.440

■ 45, 27.360,
209.463

■ 45, 26.822,
208.390

■ 46, 25.916,
207.500

■ 47, 24.428,
206.837

■ 47, 22.346,
206.376

■ 48, 19.694,
206.093

■ 49, 16.518,
205.962

■ 50, 12.880,
205.960

■ 51, 8.850, 206.072

Harmonies

Complementary

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



45, 27.349, 209.440



26, 60.173, 39.880

Rectangle

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



45, 27.349, 209.440



45, 27.349, 259.440



45, 27.349, 29.440



45, 27.349, 79.440

Sweetspot

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



45, 27.348, 209.439



64, 15.966, 205.956



46, 70.401, 136.855



33, 10.827, 205.946



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



45, 27.348, 209.439



58, 32.964, 209.795



25, 47.650, 288.476



26, 2.589, 206.320



45, 27.269, 209.456



0, 0.000, 0.000

Inverse Universe

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



29, 65.309, 331.494



39, 78.766, 331.584



37, 49.783, 67.574



25, 4.836, 327.094



29, 65.137, 331.501



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIE LCh color 45, 27.349, 209.440 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, 27.349, 209.440 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

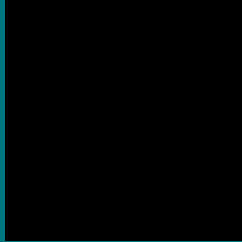
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 27.349, 209.440

Background



This preview shows how black text looks on a background with the CIELCh color 45, 27.349, 209.440.



This preview shows how white text looks on a background with the CIELCh color 45, 27.349, 209.440.

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, 27.349, 209.440

Protanopia

45, 8.967, 288.965

Deuteranopia

45, 16.142, 292.415



Tritanopia
45, 27.349, 209.440

Trichromacy



Original Color
45, 27.349, 209.440

Protanomaly
44, 16.556, 226.274

Deuteranomaly
44, 18.454, 241.656

Tritanomaly
45, 27.349, 209.440

Monochromacy



Original Color
45, 27.349, 209.440

Achromatopsia
36, 0.005, 296.813

Achromatomaly
38, 15.111, 207.056

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 27.349, 209.440 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, 118, 128)` looks like.

```
.text, #text, p{  
    color:rgb(0, 118, 128)  
}
```

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, 118, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 118, 128) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 27.349, 209.440 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, 118, 128) }
```

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

```
.border{ border-color:rgb(0, 118, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 118, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 118, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 118, 128);  
box-shadow:4px 4px 4px 4px rgb(0, 118,  
128) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 27.349, 209.440 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 118, 128) }
```

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

```
.background{ background-color: rgb(0, 118,  
128) }
```

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