

Converting Colors

CIELCh(45, 43.508, 158.307)

Have a look what the booklet for
CIELCh(45, 43.508, 158.307)
contains.

CIELCh(45, 43.450, 158.249)	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, 43.450, 158.249)

Conversions

Conversions Part 1

Format	Color
Hex	017A4E
RGB	1, 122, 78
RGB Percent	0%, 48%, 31%
CMY	0.9974, 0.5205, 0.6932
CMYK	0.99, 0.00, 0.36, 0.52
HSL	158°, 99%, 24%
HSV	158°, 99%, 48%
XYZ	8.3841, 14.5417, 9.6179
YIQ	80.8050, -57.9920, -39.3360

Conversions

Conversions Part 2

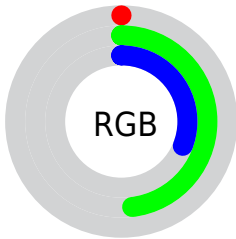
Format	Color
RYB	1, 75, 122
Decimal	96846
CIELab	45.00, -40.36, 16.10
CIElCh	45, 43.450, 158.249
Yxy	14.5417, 0.2576, 0.4468
Android (android.graphics.Color)	4278286926 (0xFF017A4E)
YUV	80.8050, -1.3829, -69.9890
Hunter-Lab	38.1336, -27.4887, 11.7397

Details

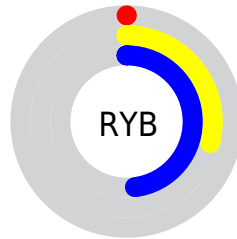
The CIELCh color **45, 43.450, 158.249** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **25, 49.228, 12.970**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **65, 43.279, 158.138**, and **26, 35.316, 149.767** is the 20% darker color. If you saturate the color by 10%, you get **45, 43.594, 158.147**, and if you desaturate by 10%, it is **45, 40.845, 160.207**.

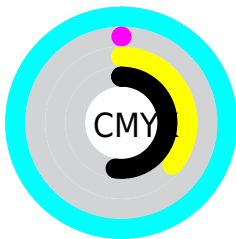
Distribution



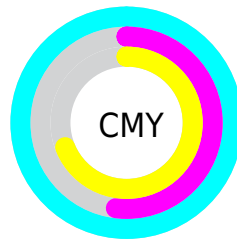
- Red (0%)
- Green (48%)
- Blue (31%)



- Red (0%)
- Yellow (29%)
- Blue (48%)



- Cyan (99%)
- Magenta (0%)
- Yellow (36%)
- Black (52%)





- Cyan (100%)
- Magenta (52%)
- Yellow (69%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 43.450, 158.249 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, 43.450, 158.249 by changing the saturation by 10% instead.


 45, 43.450,
158.249


 45, 43.450,
158.249


 100, 43.450,
158.249


 35, 43.450,
158.249

 65, 43.450,
158.249


 25, 43.450,
158.249

 75, 43.450,
158.249

 15, 43.450,
158.249

 85, 43.450,
158.249

 5, 43.450, 158.249

 95, 43.450,
158.249

 0, 43.450, 158.249

 45, 43.450,

 45, 43.450,

158.249

158.249

■ 45, 43.594,
158.147

■ 45, 40.845,
160.207

■ 45, 37.893,
162.105

■ 46, 34.416,
163.812

■ 46, 30.431,
165.340

■ 47, 25.990,
166.708

■ 48, 21.166,
167.940

■ 48, 16.042,
169.057

■ 49, 10.704,
170.082

Harmonies

Complementary

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



45, 43.450, 158.249



25, 49.228, 12.970

Rectangle

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



45, 43.450, 158.249



45, 43.450, 208.249



45, 43.450, 338.249



45, 43.450, 28.249

Sweetspot

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



45, 43.450, 158.249



61, 20.135, 168.921



45, 65.299, 131.236



31, 13.597, 168.552



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, 43.450, 158.249



57, 53.080, 157.563



41, 25.431, 220.003



25, 3.121, 171.083



46, 44.321, 158.093



88, 76.324, 156.794

Inverse Universe

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



25, 49.228, 12.970



33, 59.740, 14.608



25, 56.833, 40.914



24, 3.185, 352.547



25, 50.173, 13.324



54, 85.262, 16.497

Previews

White Background



This preview shows how the CIELCh color 45, 43.450, 158.249 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 CIE LCh color 45, 43.450, 158.249 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, 43.450, 158.249

Background



This preview shows how black text looks on a background with the CIELCh color 45, 43.450, 158.249.



This preview shows how white text looks on a background with the CIELCh color 45, 43.450, 158.249.

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, 43.388, 158.197

Protanopia

45, 21.058, 95.832

Deuteranopia

45, 15.186, 67.625



Tritanopia
45, 22.596, 212.646

Trichromacy



Original Color
45, 43.388, 158.197



Protanomaly
44, 27.902, 142.749



Deuteranomaly
43, 21.011, 144.494



Tritanomaly
45, 27.826, 185.132

Monochromacy



Original Color
45, 43.388, 158.197



Achromatopsia
34, 0.005, 296.813



Achromatomaly
37, 19.981, 167.223

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 43.450, 158.249 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(1, 122, 78)` looks like.

```
.text, #text, p{  
    color:rgb(1, 122, 78)  
}
```

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(1, 122, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 122, 78) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 43.450, 158.249 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(1, 122, 78) }
```

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

```
.border{ border-color:rgb(1, 122, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 122, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 122, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 122, 78);  
box-shadow:4px 4px 4px 4px rgb(1, 122, 78)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 43.450, 158.249 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 122, 78) }
```

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

```
.background{ background-color: rgb(1, 122,  
78) }
```

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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