

Converting Colors

CIELCh(50, 45.836, 118.940)

Have a look what the booklet for
CIELCh(50, 45.836, 118.940)
contains.

CIELCh(50, 46.060, 118.768)	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(50, 46.060, 118.768)

Conversions

Conversions Part 1

Format	Color
Hex	67802E
RGB	103, 128, 46
RGB Percent	40%, 50%, 18%
CMY	0.5973, 0.4992, 0.8208
CMYK	0.20, 0.00, 0.64, 0.50
HSL	78°, 47%, 34%
HSV	78°, 64%, 50%
XYZ	13.7247, 18.4187, 5.3861
YIQ	111.1770, 11.4220, -30.8020

Conversions

Conversions Part 2

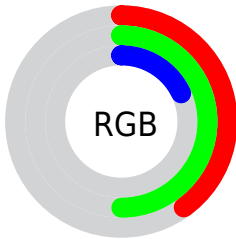
Format	Color
RYB	46, 128, 71
Decimal	6783022
CIELab	50.00, -22.17, 40.38
CIElCh	50, 46.060, 118.768
Yxy	18.4187, 0.3657, 0.4908
Android (android.graphics.Color)	4284973102 (0xFF67802E)
YUV	111.1770, -32.1323, -7.1712
Hunter-Lab	42.9170, -18.0212, 22.6009

Details

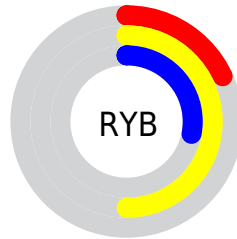
The CIELCh color **50, 46.060, 118.768** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **26, 53.146, 306.812**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 46.009, 118.913**, and **30, 43.717, 119.913** is the 20% darker color. If you saturate the color by 10%, you get **50, 51.680, 118.632**, and if you desaturate by 10%, it is **50, 39.681, 119.108**.

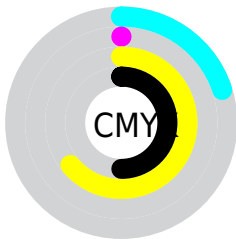
Distribution



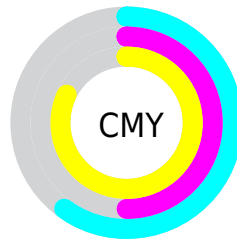
- Red (40%)
- Green (50%)
- Blue (18%)



- Red (18%)
- Yellow (50%)
- Blue (28%)



- Cyan (20%)
- Magenta (0%)
- Yellow (64%)
- Black (50%)





- Cyan (60%)
- Magenta (50%)
- Yellow (82%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 46.060, 118.768 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 50, 46.060, 118.768 by changing the saturation by 10% instead.


 50, 46.060,
118.768


 50, 46.060,
118.768


 100, 46.060,
118.768


 40, 46.060,
118.768


 70, 46.060,
118.768

 30, 46.060,
118.768


 80, 46.060,
118.768


 20, 46.060,
118.768

 90, 46.060,
118.768

 10, 46.060,
118.768

 0, 46.060, 118.768

 50, 46.060,
118.768

 50, 46.060,
118.768

■ 50, 51.680,
118.632

■ 50, 39.681,
119.108

■ 49, 56.229,
118.790

■ 51, 32.798,
119.569

■ 49, 59.463,
119.328

■ 51, 25.597,
120.097

■ 49, 61.129,
119.668

■ 52, 18.204,
120.655

■ 53, 10.708,
121.217

■ 53, 3.167, 121.775

■ 54, 4.375, 302.283

■ 55, 11.890,
302.788

■ 55, 19.356,
303.259

Harmonies

Complementary

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



50, 46.060, 118.768



26, 53.146, 306.812

Rectangle

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



50, 46.060, 118.768



50, 46.060, 168.768



50, 46.060, 298.768



50, 46.060, 348.768

Sweetspot

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



50, 46.061, 118.770



67, 17.710, 120.923



36, 33.642, 48.861



35, 12.276, 120.786



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



50, 46.061, 118.770



63, 65.217, 118.661



48, 52.764, 135.133



27, 4.243, 121.502



49, 61.061, 119.666



0, 0.000, 0.000

Inverse Universe

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



26, 53.146, 306.812



29, 78.445, 307.919



32, 53.793, 321.241



25, 4.318, 302.496



15, 77.319, 308.685



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 50, 46.060, 118.768 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 50, 46.060, 118.768 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

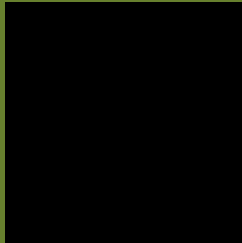
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

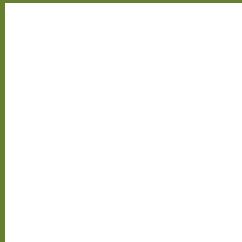
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 50, 46.060, 118.768

Background



This preview shows how black text looks on a background with the CIELCh color 50, 46.060, 118.768.



This preview shows how white text looks on a background with the CIELCh color 50, 46.060, 118.768.

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

50, 46.060, 118.768

Protanopia

50, 42.487, 95.503

Deuteranopia

50, 39.714, 80.934



Tritanopia
50, 6.030, 260.300

Trichromacy



Original Color
50, 46.060, 118.768

Protanomaly
50, 42.746, 104.542

Deuteranomaly
49, 39.614, 95.922

Tritanomaly
50, 15.151, 131.111

Monochromacy



Original Color
50, 46.060, 118.768

Achromatopsia
47, 0.006, 296.813

Achromatomaly
48, 17.924, 120.388

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 46.060, 118.768 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(103, 128, 46)` looks like.

```
.text, #text, p{  
    color:rgb(103, 128, 46)  
}
```

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(103, 128, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 128, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 46.060, 118.768 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(103, 128, 46) }
```

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

```
.border{ border-color:rgb(103, 128, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 128, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 128, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 128, 46);  
box-shadow:4px 4px 4px 4px rgb(103, 128,  
46) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 46.060, 118.768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 128, 46) }
```

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

```
.background{ background-color: rgb(103,  
128, 46) }
```

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