

Converting Colors

CIELCh(46, 18.695, 84.101)

Have a look what the booklet for
CIELCh(46, 18.695, 84.101) contains.

CIELCh(46, 18.675, 84.728)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(46, 18.675, 84.728)

Conversions

Conversions Part 1

Format	Color
Hex	7B6B4E
RGB	123, 107, 78
RGB Percent	48%, 42%, 31%
CMY	0.5178, 0.5805, 0.6942
CMYK	0.00, 0.13, 0.37, 0.52
HSL	39°, 22%, 39%
HSV	39°, 37%, 48%
XYZ	14.7938, 15.2687, 9.3704
YIQ	108.4780, 18.8450, -5.6270

Conversions

Conversions Part 2

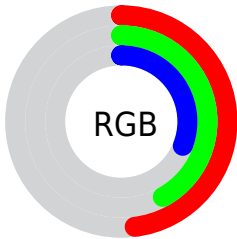
Format	Color
RYB	103, 123, 78
Decimal	8088398
CIELab	46.00, 1.72, 18.60
CIElCh	46, 18.675, 84.728
Yxy	15.2687, 0.3752, 0.3872
Android (android.graphics.Color)	4286278478 (0xFF7B6B4E)
YUV	108.4780, -15.0257, 12.7358
Hunter-Lab	39.0751, -0.8018, 13.1345

Details

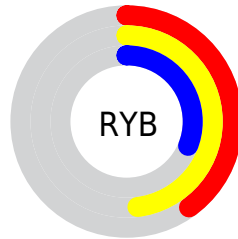
The CIELCh color $46, 18.675, 84.728$ is a dark color, and the websafe version is hex 666633 . A complement of this color would be $40, 18.353, 275.022$, and the grayscale version is $46, 0.006, 296.813$.

A 20% lighter version of the original color is $66, 18.706, 84.738$, and $26, 18.791, 85.323$ is the 20% darker color. If you saturate the color by 10%, you get $45, 23.998, 83.400$, and if you desaturate by 10%, it is $47, 13.427, 86.029$.

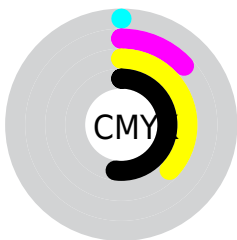
Distribution



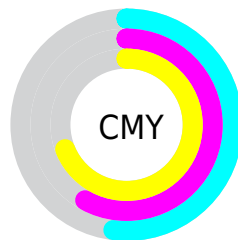
- Red (48%)
- Green (42%)
- Blue (31%)



- Red (40%)
- Yellow (48%)
- Blue (31%)



- Cyan (0%)
- Magenta (13%)
- Yellow (37%)
- Black (52%)





















- Cyan (52%)
- Magenta (58%)
- Yellow (69%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 18.675, 84.728 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 46, 18.675, 84.728 by changing the saturation by 10% instead.

 46, 18.675, 84.728	 46, 18.675, 84.728
 100, 18.675, 84.728	 36, 18.675, 84.728
 66, 18.675, 84.728	 26, 18.675, 84.728
 76, 18.675, 84.728	 16, 18.675, 84.728
 86, 18.675, 84.728	 6, 18.675, 84.728
 96, 18.675, 84.728	 0, 18.675, 84.728
 46, 18.675, 84.728	 46, 18.675, 84.728
 45, 23.998, 83.400	 47, 13.427, 86.029
 43, 29.330, 82.023	 49, 8.281, 87.284

■ 42, 34.549, 80.583

■ 51, 3.248, 88.475

■ 40, 39.432, 79.036

■ 52, 1.670, 269.820

■ 39, 43.612, 77.288

■ 54, 6.478, 270.877

■ 38, 46.864, 75.298

■ 55, 11.184,
271.956

■ 38, 48.084, 74.702

■ 57, 15.795,
272.992

■ 59, 20.318,
273.982

■ 60, 24.762,
274.923

Harmonies

Complementary

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



46, 18.675, 84.728



40, 18.353, 275.022

Rectangle

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



46, 18.675, 84.728



46, 18.675, 134.728



46, 18.675, 264.728



46, 18.675, 314.728

Sweetspot

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



46, 18.675, 84.734



64, 6.788, 87.930



39, 21.547, 355.388



33, 4.603, 87.800



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



46, 18.675, 84.734



58, 28.168, 83.604



50, 25.893, 112.721



25, 2.774, 88.191



38, 48.638, 74.649



74, 81.885, 72.910

Inverse Universe

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



40, 18.353, 275.022



48, 27.614, 276.855



36, 28.174, 298.868



24, 2.769, 270.490



21, 53.687, 294.000



45, 95.574, 296.049

Previews

White Background



This preview shows how the CIELCh color 46, 18.675, 84.728 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 46, 18.675, 84.728 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

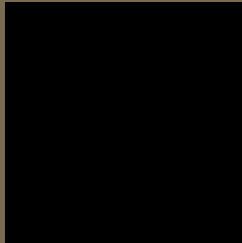
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 18.675, 84.728

Background



This preview shows how black text looks on a background with the CIELCh color 46, 18.675, 84.728.



This preview shows how white text looks on a background with the CIELCh color 46, 18.675, 84.728.

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

46, 18.675, 84.728

Protanopia

46, 18.025, 96.113

Deuteranopia

46, 19.400, 71.679



Tritanopia
46, 10.647, 354.430

Trichromacy



Original Color
46, 18.675, 84.728

Protanomaly
46, 17.830, 91.517

Deuteranomaly
46, 19.039, 75.906

Tritanomaly
46, 9.554, 38.351

Monochromacy



Original Color
46, 18.675, 84.728

Achromatopsia
46, 0.006, 296.813

Achromatomaly
46, 6.849, 91.075

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 18.675, 84.728 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(123, 107, 78)` looks like.

```
.text, #text, p{  
    color:rgb(123, 107, 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(123, 107, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 107, 78) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 18.675, 84.728 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(123, 107, 78) }
```

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

```
.border{ border-color:rgb(123, 107, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 107, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 107, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 107, 78);  
box-shadow:4px 4px 4px 4px rgb(123, 107,  
78) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 18.675, 84.728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 107, 78) }
```

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

```
.background{ background-color: rgb(123,  
107, 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](#).

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