

Converting Colors

CIELCh(48, 13.686, 143.521)

Have a look what the booklet for
CIELCh(48, 13.686, 143.521)
contains.

CIELCh(48, 13.687, 143.513)	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(48, 13.687, 143.513)

Conversions

Conversions Part 1

Format	Color
Hex	647764
RGB	100, 119, 100
RGB Percent	39%, 47%, 39%
CMY	0.6082, 0.5337, 0.6082
CMYK	0.16, 0.00, 0.16, 0.53
HSL	120°, 9%, 43%
HSV	120°, 16%, 47%
XYZ	14.1276, 16.7945, 14.5311
YIQ	111.1530, -5.2250, -9.9370

Conversions

Conversions Part 2

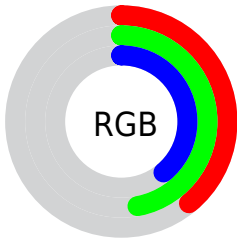
Format	Color
R_{YB}	100, 119, 119
Decimal	6584164
CIE _{Lab}	48.00, -11.00, 8.14
CIE _{LCh}	48, 13.687, 143.513
Yxy	16.7945, 0.3108, 0.3695
Android (android.graphics.Color)	4284774244 (0xFF647764)
YUV	111.1530, -5.4984, -9.7812
Hunter-Lab	40.9810, -10.1818, 7.6636

Details

The CIELCh color **48, 13.687, 143.513** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **45, 13.702, 325.264**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 13.462, 143.769**, and **28, 14.207, 142.965** is the 20% darker color. If you saturate the color by 10%, you get **47, 22.297, 142.789**, and if you desaturate by 10%, it is **49, 5.089, 144.152**.

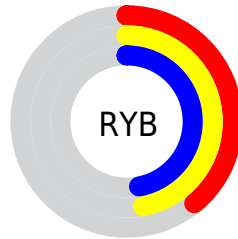
Distribution



Red (39%)

Green (47%)

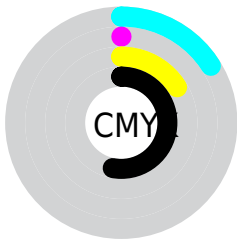
Blue (39%)



Red (39%)

Yellow (47%)

Blue (47%)

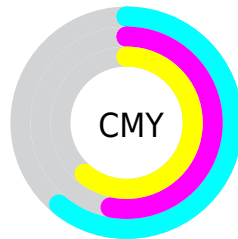


Cyan (16%)

Magenta (0%)

Yellow (16%)

Black (53%)



Cyan (61%)


Magenta (53%)


Yellow (61%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 13.687, 143.513 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 48, 13.687, 143.513 by changing the saturation by 10% instead.


 48, 13.687,
143.513


 48, 13.687,
143.513


 100, 13.687,
143.513


 38, 13.687,
143.513

 68, 13.687,
143.513


 28, 13.687,
143.513

 78, 13.687,
143.513

 18, 13.687,
143.513


 88, 13.687,
143.513

 8, 13.687, 143.513

 98, 13.687,
143.513

 0, 13.687, 143.513

 48, 13.687,

 48, 13.687,

143.513

■ 47, 22.297,
142.789

■ 46, 30.784,
141.956

■ 45, 38.981,
141.013

■ 44, 46.673,
139.976

■ 44, 53.600,
138.891

■ 44, 59.462,
137.839

■ 43, 63.942,
136.941

■ 43, 66.982,
136.281

143.513

■ 49, 5.089, 144.152

■ 51, 3.405, 324.592

■ 52, 11.727,
325.076

■ 54, 19.834,
325.464

■ 55, 27.699,
325.791

■ 57, 35.312,
326.071

■ 59, 42.670,
326.310

■ 61, 49.776,
326.516

■ 43, 68.148,
136.016

■ 62, 56.640,
326.694

Harmonies

Complementary

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



48, 13.687, 143.513



45, 13.702, 325.264

Rectangle

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



48, 13.687, 143.513



48, 13.687, 193.513



48, 13.687, 323.513



48, 13.687, 13.513

Sweetspot

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



48, 13.688, 143.513



63, 5.299, 144.206



50, 11.058, 108.707



33, 3.646, 144.170



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



48, 13.688, 143.513



61, 20.305, 143.271



48, 9.507, 162.369



24, 4.750, 143.963



44, 69.575, 136.016



86, 117.958, 136.016

Inverse Universe

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



45, 13.702, 325.264



56, 20.320, 325.449



44, 9.693, 344.933



23, 4.757, 324.890



28, 67.128, 328.234



59, 113.809, 328.234

Previews

White Background



This preview shows how the CIELCh color 48, 13.687, 143.513 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 48, 13.687, 143.513 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

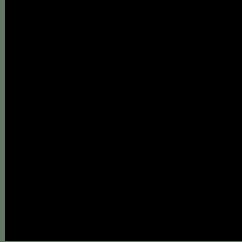
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

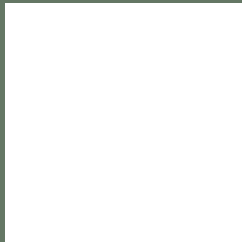
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 48, 13.687, 143.513

Background



This preview shows how black text looks on a background with the CIELCh color 48, 13.687, 143.513.

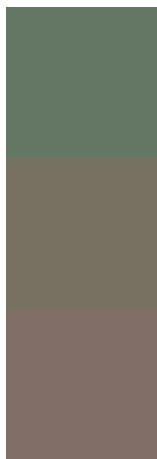


This preview shows how white text looks on a background with the CIELCh color 48, 13.687, 143.513.

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

48, 13.687, 143.513

Protanopia

48, 9.739, 93.520

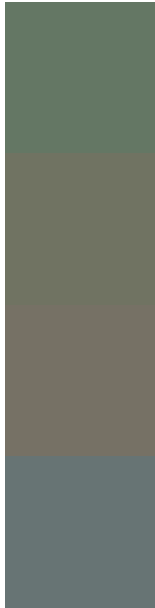
Deuteranopia

48, 9.446, 49.846



Tritanopia
48, 7.147, 255.006

Trichromacy



Original Color
48, 13.687, 143.513

Protanomaly
48, 10.053, 116.091

Deuteranomaly
48, 7.356, 92.437

Tritanomaly
48, 5.114, 198.900

Monochromacy



Original Color
48, 13.687, 143.513

Achromatopsia
47, 0.006, 296.813

Achromatomaly
47, 5.050, 144.143

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 13.687, 143.513 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(100, 119, 100)` looks like.

```
.text, #text, p{  
    color:rgb(100, 119, 100)  
}
```

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(100, 119, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 119, 100) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 13.687, 143.513 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(100, 119, 100) }
```

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

```
.border{ border-color:rgb(100, 119, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 119, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 119, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 119, 100);  
box-shadow:4px 4px 4px 4px rgb(100, 119,  
100) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 13.687, 143.513 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 119, 100) }
```

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

```
.background{ background-color: rgb(100,  
119, 100) }
```

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