

Converting Colors

CIELCh(48, 15.962, 108.004)

Have a look what the booklet for
CIELCh(48, 15.962, 108.004)
contains.

CIELCh(48, 16.320, 107.959)	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, 16.320, 107.959)

Conversions

Conversions Part 1

Format	Color
Hex	747458
RGB	116, 116, 88
RGB Percent	45%, 45%, 35%
CMY	0.5465, 0.5465, 0.6563
CMYK	0.00, 0.00, 0.24, 0.55
HSL	60°, 14%, 40%
HSV	60°, 24%, 45%
XYZ	15.1049, 16.7945, 11.6030
YIQ	112.8080, 8.9880, -8.7080

Conversions

Conversions Part 2

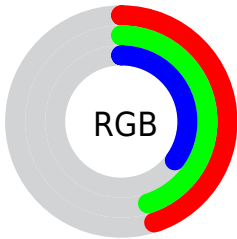
Format	Color
R_{YB}	88, 116, 88
Decimal	7631960
CIE Lab	48.00, -5.03, 15.52
CIE LCh	48, 16.320, 107.959
Yxy	16.7945, 0.3472, 0.3861
Android (android.graphics.Color)	4285822040 (0xFF747458)
YUV	112.8080, -12.2303, 2.7994
Hunter-Lab	40.9810, -5.9247, 11.8999

Details

The CIELCh color $48, 16.320, 107.959$ is a dark color, and the websafe version is hex 666633 . A complement of this color would be $38, 17.224, 292.851$, and the grayscale version is $47, 0.006, 296.813$.

A 20% lighter version of the original color is $68, 16.385, 108.481$, and $28, 16.506, 108.634$ is the 20% darker color. If you saturate the color by 10%, you get $48, 22.924, 107.050$, and if you desaturate by 10%, it is $48, 9.611, 108.884$.

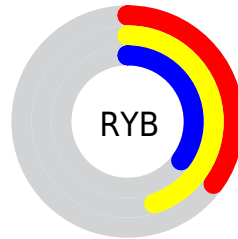
Distribution



Red (45%)

Green (45%)

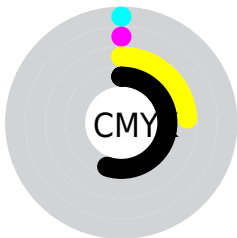
Blue (35%)



Red (35%)

Yellow (45%)

Blue (35%)

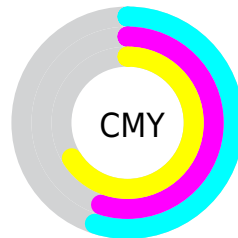


Cyan (0%)

Magenta (0%)

Yellow (24%)

Black (55%)



Cyan (55%)


Magenta (55%)


Yellow (66%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 16.320, 107.959 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, 16.320, 107.959 by changing the saturation by 10% instead.


 48, 16.320,
107.959


 48, 16.320,
107.959


 100, 16.320,
107.959


 38, 16.320,
107.959

 68, 16.320,
107.959


 28, 16.320,
107.959

 78, 16.320,
107.959

 18, 16.320,
107.959


 88, 16.320,
107.959

 8, 16.320, 107.959

 98, 16.320,
107.959

 0, 16.320, 107.959

 48, 16.320,

 48, 16.320,

107.959

107.959

■ 48, 22.924,
107.050

■ 48, 9.611, 108.884

■ 48, 29.341,
106.163

■ 49, 2.845, 109.791

■ 49, 3.944, 290.718

■ 47, 35.454,
105.323

■ 49, 10.732,
291.589

■ 47, 41.089,
104.560

■ 50, 17.504,
292.435

■ 47, 46.006,
103.905

■ 50, 24.247,
293.247

■ 47, 49.915,
103.395

■ 51, 30.952,
294.023

■ 47, 52.618,
103.047

■ 51, 37.613,
294.759

■ 47, 54.050,
102.865

■ 52, 44.223,

295.455

Harmonies

Complementary

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



48, 16.320, 107.959



38, 17.224, 292.851

Rectangle

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



48, 16.320, 107.959



48, 16.320, 157.959



48, 16.320, 287.959



48, 16.320, 337.959

Sweetspot

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



48, 16.321, 107.963



62, 5.882, 109.525



40, 12.370, 21.128



32, 3.852, 109.489



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



48, 16.321, 107.963



61, 24.189, 107.455



47, 17.483, 128.015



25, 3.857, 109.356



50, 56.293, 102.865



95, 95.438, 102.866

Inverse Universe

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



38, 17.224, 292.851



47, 25.892, 293.615



40, 18.044, 310.157



22, 3.936, 291.072



12, 77.729, 306.288



32, 131.782, 306.288

Previews

White Background



This preview shows how the CIELCh color 48, 16.320, 107.959 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 48, 16.320, 107.959 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

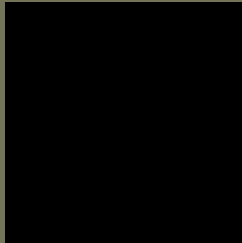
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

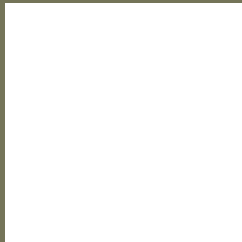
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 48, 16.320, 107.959

Background



This preview shows how black text looks on a background with the CIELCh color 48, 16.320, 107.959.



This preview shows how white text looks on a background with the CIELCh color 48, 16.320, 107.959.

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

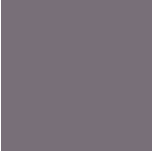
48, 16.320, 107.959

Protanopia

48, 16.185, 95.358

Deuteranopia

48, 16.057, 66.646



Tritanopia
48, 6.454, 324.806

Trichromacy



Original Color
48, 16.320, 107.959

Protanomaly
48, 16.489, 100.246

Deuteranomaly
48, 14.807, 79.708

Tritanomaly
48, 3.586, 74.370

Monochromacy



Original Color
48, 16.320, 107.959

Achromatopsia
47, 0.006, 296.813

Achromatomaly
47, 5.881, 109.366

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 16.320, 107.959 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(116, 116, 88)` looks like.

```
.text, #text, p{  
    color:rgb(116, 116, 88)  
}
```

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(116, 116, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 116, 88) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 16.320, 107.959 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(116, 116, 88) }
```

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

```
.border{ border-color:rgb(116, 116, 88) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 116, 88)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 116, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 116, 88);  
box-shadow:4px 4px 4px 4px rgb(116, 116,  
88) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 16.320, 107.959 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 116, 88) }
```

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

```
.background{ background-color: rgb(116,  
116, 88) }
```

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