

Converting Colors

CIELCh(48, 50.450, 104.996)

Have a look what the booklet for
CIELCh(48, 50.450, 104.996)
contains.

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Color

CIELCh(48, 50.318, 104.520)

Conversions

Conversions Part 1

Format	Color
Hex	747614
RGB	116, 118, 20
RGB Percent	45%, 46%, 8%
CMY	0.5441, 0.5363, 0.9204
CMYK	0.02, 0.00, 0.83, 0.54
HSL	61°, 71%, 27%
HSV	61°, 83%, 46%
XYZ	13.8713, 16.7945, 3.1866
YIQ	106.2300, 30.2660, -30.9020

Conversions

Conversions Part 2

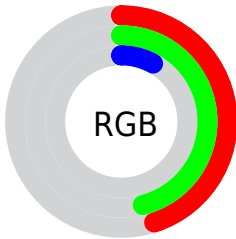
Format	Color
R _{YB}	20, 118, 22
Decimal	7632404
CIE Lab	48.00, -12.62, 48.71
CIE LCh	48, 50.318, 104.520
Yxy	16.7945, 0.4098, 0.4961
Android (android.graphics.Color)	4285822484 (0xFF747614)
YUV	106.2300, -42.5114, 8.5683
Hunter-Lab	40.9810, -11.2981, 24.0764

Details

The CIELCh color **48, 50.318, 104.520** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **15, 65.340, 303.881**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 50.212, 104.471**, and **28, 38.228, 106.833** is the 20% darker color. If you saturate the color by 10%, you get **48, 53.184, 104.229**, and if you desaturate by 10%, it is **48, 46.195, 105.001**.

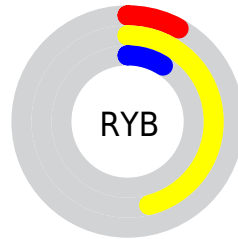
Distribution



Red (45%)

Green (46%)

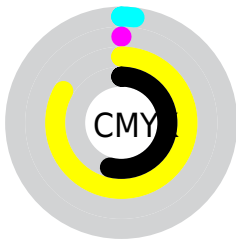
Blue (8%)



Red (8%)

Yellow (46%)

Blue (9%)

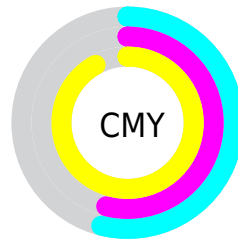


Cyan (2%)

Magenta (0%)

Yellow (83%)

Black (54%)



Cyan (54%)


Magenta (54%)


Yellow (92%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 50.318, 104.520 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, 50.318, 104.520 by changing the saturation by 10% instead.


 48, 50.318,
104.520


 48, 50.318,
104.520


 100, 50.318,
104.520


 38, 50.318,
104.520

 68, 50.318,
104.520


 28, 50.318,
104.520

 78, 50.318,
104.520

 18, 50.318,
104.520

 88, 50.318,
104.520

 8, 50.318, 104.520

 98, 50.318,
104.520

 0, 50.318, 104.520

 48, 50.318,

 48, 50.318,

104.520

■ 48, 53.184,
104.229

■ 48, 54.935,
104.062

104.520

■ 48, 46.195,
105.001

■ 48, 41.082,
105.631

■ 48, 35.270,
106.374

■ 49, 28.997,
107.192

■ 49, 22.432,
108.056

■ 49, 15.689,
108.945

■ 49, 8.844, 109.838

■ 50, 1.947, 110.710

Harmonies

Complementary

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



48, 50.318, 104.520



15, 65.340, 303.881

Rectangle

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



48, 50.318, 104.520



48, 50.318, 154.520



48, 50.318, 284.520



48, 50.318, 334.520

Sweetspot

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



48, 50.318, 104.522



62, 21.194, 108.695



25, 49.085, 34.103



32, 14.352, 108.451



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, 50.318, 104.522



61, 65.987, 104.106



45, 55.629, 127.026



25, 3.858, 110.175



50, 56.313, 104.066



95, 95.477, 104.133

Inverse Universe

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



15, 65.340, 303.881



17, 90.722, 306.249



21, 62.223, 313.002



22, 3.937, 291.831



12, 77.605, 306.385



32, 131.693, 306.328

Previews

White Background



This preview shows how the CIELCh color 48, 50.318, 104.520 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, 50.318, 104.520 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, 50.318, 104.520

Background



This preview shows how black text looks on a background with the CIELCh color 48, 50.318, 104.520.



This preview shows how white text looks on a background with the CIELCh color 48, 50.318, 104.520.

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, 50.318, 104.520

Protanopia

48, 49.619, 95.505

Deuteranopia

48, 47.672, 82.699



Tritanopia
48, 7.785, 337.445

Trichromacy



Original Color
48, 50.318, 104.520

Protanomaly
48, 50.013, 98.951

Deuteranomaly
48, 47.621, 91.247

Tritanomaly
48, 17.914, 96.225

Monochromacy



Original Color
48, 50.318, 104.520

Achromatopsia
45, 0.006, 296.813

Achromatomaly
46, 20.505, 107.272

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 50.318, 104.520 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, 118, 20)` looks like.

```
.text, #text, p{  
    color:rgb(116, 118, 20)  
}
```

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, 118, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 118, 20) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 50.318, 104.520 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, 118, 20) }
```

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

```
.border{ border-color:rgb(116, 118, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 118, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 118, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 118, 20);  
box-shadow:4px 4px 4px 4px rgb(116, 118,  
20) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 50.318, 104.520 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 118, 20) }
```

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

```
.background{ background-color: rgb(116,  
118, 20) }
```

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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