

Converting Colors

CIELCh(48, 50.690, 117.675)

Have a look what the booklet for
CIELCh(48, 50.690, 117.675)
contains.

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Color

CIELCh(48, 50.570, 117.507)

Conversions

Conversions Part 1

Format	Color
Hex	617B1E
RGB	97, 123, 30
RGB Percent	38%, 48%, 12%
CMY	0.6197, 0.5177, 0.8824
CMYK	0.21, 0.00, 0.76, 0.52
HSL	77°, 61%, 30%
HSV	77°, 76%, 48%
XYZ	12.2417, 16.7945, 3.8232
YIQ	104.6240, 14.3570, -34.4350

Conversions

Conversions Part 2

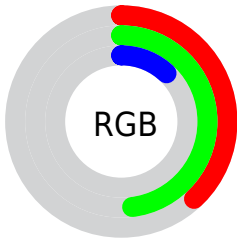
Format	Color
R _Y B	30, 123, 56
Decimal	6388510
CIE Lab	48.00, -23.36, 44.85
CIE LCh	48, 50.570, 117.507
Yxy	16.7945, 0.3725, 0.5111
Android (android.graphics.Color)	4284578590 (0xFF617B1E)
YUV	104.6240, -36.7896, -6.6862
Hunter-Lab	40.9810, -18.3958, 23.1555

Details

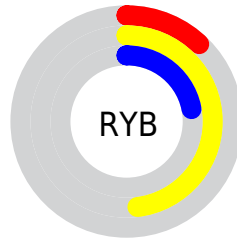
The CIELCh color **48, 50.570, 117.507** is a dark color, and the websafe version is hex **336600**. A complement of this color would be **21, 60.694, 307.139**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 50.938, 117.726**, and **28, 42.170, 121.329** is the 20% darker color. If you saturate the color by 10%, you get **48, 54.793, 117.672**, and if you desaturate by 10%, it is **48, 45.274, 117.644**.

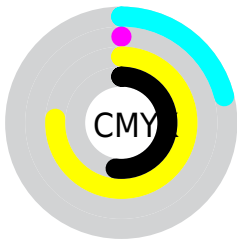
Distribution



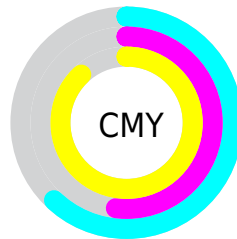
- Red (38%)
- Green (48%)
- Blue (12%)



- Red (12%)
- Yellow (48%)
- Blue (22%)



- Cyan (21%)
- Magenta (0%)
- Yellow (76%)
- Black (52%)





- Cyan (62%)
- Magenta (52%)
- Yellow (88%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 50.570, 117.507 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, 50.570, 117.507 by changing the saturation by 10% instead.


 48, 50.570,
117.507


 48, 50.570,
117.507


 100, 50.570,
117.507


 38, 50.570,
117.507

 68, 50.570,
117.507


 28, 50.570,
117.507

 78, 50.570,
117.507

 18, 50.570,
117.507

 88, 50.570,
117.507

 8, 50.570, 117.507

 98, 50.570,
117.507

 0, 50.570, 117.507

 48, 50.570,

 48, 50.570,

117.507

■ 48, 54.793,
117.672

■ 47, 57.801,
118.181

■ 47, 59.049,
118.398

117.507

■ 48, 45.274,
117.644

■ 49, 39.207,
117.983

■ 49, 32.623,
118.452

■ 50, 25.709,
118.992

■ 50, 18.596,
119.567

■ 51, 11.370,
120.149

■ 51, 4.092, 120.726

■ 52, 3.197, 301.263

■ 53, 10.466,
301.795

Harmonies

Complementary

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



48, 50.570, 117.507



21, 60.694, 307.139

Rectangle

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



48, 50.570, 117.507



48, 50.570, 167.507



48, 50.570, 297.507



48, 50.570, 347.507

Sweetspot

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



48, 50.570, 117.509



64, 20.788, 119.686



32, 40.334, 46.244



34, 14.483, 119.509



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



48, 50.570, 117.509



61, 69.376, 118.054



46, 57.809, 133.873



26, 4.085, 120.529



48, 59.734, 118.420



92, 100.982, 119.145

Inverse Universe

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



21, 60.694, 307.139



23, 87.332, 308.044



27, 59.269, 320.319



23, 4.159, 301.560



15, 76.515, 308.367



35, 129.597, 307.909

Previews

White Background



This preview shows how the CIELCh color 48, 50.570, 117.507 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, 50.570, 117.507 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, 50.570, 117.507

Background



This preview shows how black text looks on a background with the CIELCh color 48, 50.570, 117.507.



This preview shows how white text looks on a background with the CIELCh color 48, 50.570, 117.507.

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, 50.570, 117.507

Protanopia
48, 46.614, 95.431

Deuteranopia
48, 43.925, 82.156



Tritanopia
48, 6.072, 260.368

Trichromacy



Original Color
48, 50.570, 117.507

Protanomaly
48, 46.883, 103.829

Deuteranomaly
47, 43.740, 95.888

Tritanomaly
48, 17.587, 129.291

Monochromacy



Original Color
48, 50.570, 117.507

Achromatopsia
44, 0.006, 296.813

Achromatomaly
46, 20.410, 119.896

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 50.570, 117.507 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(97, 123, 30)` looks like.

```
.text, #text, p{  
    color:rgb(97, 123, 30)  
}
```

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(97, 123, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 123, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 50.570, 117.507 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(97, 123, 30) }
```

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

```
.border{ border-color:rgb(97, 123, 30) }
```

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

Here you see how a box with a 4 pixel rgb(97, 123, 30) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 123, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 123, 30);  
box-shadow:4px 4px 4px 4px rgb(97, 123,  
30) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 50.570, 117.507 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 123, 30) }
```

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

```
.background{ background-color: rgb(97, 123,  
30) }
```

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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