

Converting Colors

CIELCh(48, 46.150, 98.428)

Have a look what the booklet for
CIELCh(48, 46.150, 98.428) contains.

CIELCh(48, 45.979, 97.870)	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(48, 45.979, 97.870)

Conversions

Conversions Part 1

Format	Color
Hex	7D731E
RGB	125, 115, 30
RGB Percent	49%, 45%, 12%
CMY	0.5087, 0.5480, 0.8813
CMYK	0.00, 0.08, 0.76, 0.51
HSL	54°, 61%, 30%
HSV	54°, 76%, 49%
XYZ	14.8945, 16.7945, 3.7032
YIQ	108.3000, 33.2450, -24.3150

Conversions

Conversions Part 2

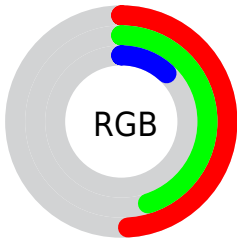
Format	Color
R_{YB}	41, 125, 30
Decimal	8221470
CIE Lab	48.00, -6.30, 45.55
CIE LCh	48, 45.979, 97.870
Yxy	16.7945, 0.4208, 0.4745
Android (android.graphics.Color)	4286411550 (0xFF7D731E)
YUV	108.3000, -38.6019, 14.6459
Hunter-Lab	40.9810, -6.8413, 23.3291

Details

The CIELCh color **48, 45.979, 97.870** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **21, 56.300, 298.979**, and the grayscale version is **46, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 45.999, 98.219**, and **28, 37.097, 97.922** is the 20% darker color. If you saturate the color by 10%, you get **48, 49.769, 96.994**, and if you desaturate by 10%, it is **48, 41.115, 98.812**.

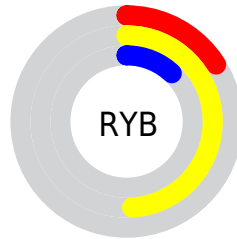
Distribution



Red (49%)

Green (45%)

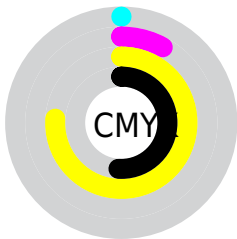
Blue (12%)



Red (16%)

Yellow (49%)

Blue (12%)

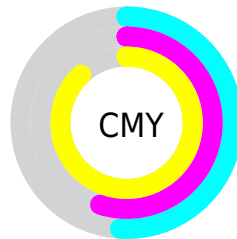


Cyan (0%)

Magenta (8%)

Yellow (76%)

Black (51%)



Cyan (51%)

Magenta (55%)

Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 45.979, 97.870 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, 45.979, 97.870 by changing the saturation by 10% instead.

■ 48, 45.979, 97.870

■ 48, 45.979, 97.870

■ 100, 45.979,
97.870

■ 38, 45.979, 97.870

■ 68, 45.979, 97.870

■ 28, 45.979, 97.870

■ 78, 45.979, 97.870

■ 18, 45.979, 97.870

■ 88, 45.979, 97.870

■ 8, 45.979, 97.870

■ 98, 45.979, 97.870

■ 0, 45.979, 97.870

■ 48, 45.979, 97.870

■ 48, 45.979, 97.870

■ 48, 49.769, 96.994

■ 48, 41.115, 98.812

■ 47, 52.280, 96.173

■ 49, 35.532, 99.801

47, 53.277, 95.842

50, 29.503,
100.822

50, 23.215,
101.862

51, 16.788,
102.903

51, 10.297,
103.935

52, 3.787, 104.938

53, 2.713, 285.977

54, 9.187, 286.915

Harmonies

Complementary

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



48, 45.979, 97.870



21, 56.300, 298.979

Rectangle

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



48, 45.979, 97.870



48, 45.979, 147.870



48, 45.979, 277.870



48, 45.979, 327.870

Sweetspot

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



48, 45.979, 97.873



65, 18.564, 103.140



28, 44.693, 23.336



33, 12.777, 102.827



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, 45.979, 97.873



61, 62.639, 96.386



48, 52.729, 121.934



27, 3.716, 104.615



48, 53.952, 95.829



0, 0.000, 0.000

Inverse Universe

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



21, 56.300, 298.979



23, 84.112, 303.084



22, 61.303, 309.523



25, 3.777, 286.517



15, 74.542, 304.289



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 48, 45.979, 97.870 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, 45.979, 97.870 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

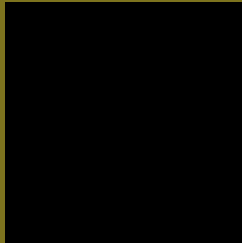
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 45.979, 97.870

Background



This preview shows how black text looks on a background with the CIELCh color 48, 45.979, 97.870.



This preview shows how white text looks on a background with the CIELCh color 48, 45.979, 97.870.

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, 45.979, 97.870

Protanopia

48, 45.855, 95.405

Deuteranopia

48, 45.376, 82.001



Tritanopia
48, 11.562, 353.708

Trichromacy



Original Color
48, 45.979, 97.870

Protanomaly
48, 45.774, 96.007

Deuteranomaly
48, 45.298, 87.814

Tritanomaly
48, 17.336, 76.850

Monochromacy



Original Color
48, 45.979, 97.870

Achromatopsia
46, 0.006, 296.813

Achromatomaly
46, 18.263, 101.989

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 45.979, 97.870 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(125, 115, 30)` looks like.

```
.text, #text, p{  
    color:rgb(125, 115, 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(125, 115, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(125, 115, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 45.979, 97.870 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(125, 115, 30) }
```

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

```
.border{ border-color:rgb(125, 115, 30) }
```

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

Here you see how a box with a 4 pixel `rgb(125, 115, 30)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(125, 115, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(125, 115, 30);  
box-shadow:4px 4px 4px 4px rgb(125, 115,  
30) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 45.979, 97.870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(125, 115, 30) }
```

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

```
.background{ background-color: rgb(125,  
115, 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](#).

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