

Converting Colors

CIELCh(48, 38.703, 107.228)

Have a look what the booklet for
CIELCh(48, 38.703, 107.228)
contains.

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Color

CIELCh(48, 38.580, 107.056)

Conversions

Conversions Part 1

Format	Color
Hex	737631
RGB	115, 118, 49
RGB Percent	45%, 46%, 19%
CMY	0.5494, 0.5376, 0.8082
CMYK	0.03, 0.00, 0.59, 0.54
HSL	63°, 41%, 33%
HSV	63°, 59%, 46%
XYZ	14.0778, 16.7945, 5.3957
YIQ	109.2370, 20.3610, -22.0950

Conversions

Conversions Part 2

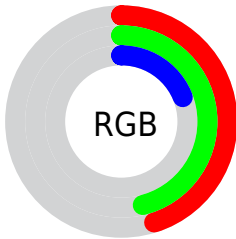
Format	Color
R_{YB}	49, 118, 52
Decimal	7566897
CIE _{Lab}	48.00, -11.32, 36.88
CIE _{LCh}	48, 38.580, 107.056
Yxy	16.7945, 0.3882, 0.4631
Android (android.graphics.Color)	4285756977 (0xFF737631)
YUV	109.2370, -29.6968, 5.0542
Hunter-Lab	40.9810, -10.3987, 20.8803

Details

The CIELCh color **48, 38.580, 107.056** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **24, 45.276, 299.659**, and the grayscale version is **46, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 38.551, 106.818**, and **28, 38.272, 107.614** is the 20% darker color. If you saturate the color by 10%, you get **48, 44.022, 106.418**, and if you desaturate by 10%, it is **48, 32.555, 107.800**.

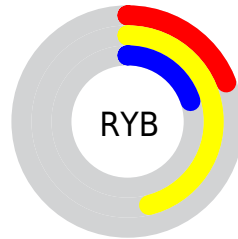
Distribution



Red (45%)

Green (46%)

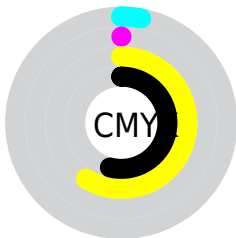
Blue (19%)



Red (19%)

Yellow (46%)

Blue (20%)

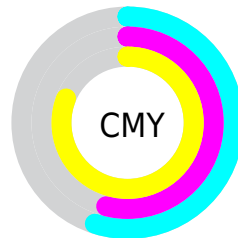


Cyan (3%)

Magenta (0%)

Yellow (59%)

Black (54%)



Cyan (55%)


Magenta (54%)

Yellow (81%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 38.580, 107.056 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, 38.580, 107.056 by changing the saturation by 10% instead.


 48, 38.580,
107.056


 48, 38.580,
107.056


 100, 38.580,
107.056

 38, 38.580,
107.056

 68, 38.580,
107.056


 28, 38.580,
107.056

 78, 38.580,
107.056

 18, 38.580,
107.056


 88, 38.580,
107.056

 8, 38.580, 107.056

 98, 38.580,
107.056

 0, 38.580, 107.056

 48, 38.580,

 48, 38.580,

107.056

107.056

■ 48, 44.022,
106.418

■ 48, 32.555,
107.800

■ 48, 48.609,
105.922

■ 48, 26.150,
108.607

■ 48, 52.043,
105.616

■ 49, 19.509,
109.451

■ 48, 54.509,
105.465

■ 49, 12.726,
110.310

■ 48, 54.883,
105.440

■ 49, 5.866, 111.166

■ 50, 1.032, 292.049

■ 50, 7.937, 292.846

■ 51, 14.831,
293.640

■ 51, 21.700,

Harmonies

Complementary

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



48, 38.580, 107.056



24, 45.276, 299.659

Rectangle

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



48, 38.580, 107.056



48, 38.580, 157.056



48, 38.580, 287.056



48, 38.580, 337.056

Sweetspot

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



48, 38.581, 107.058



62, 15.315, 110.316



31, 33.031, 28.366



32, 10.570, 110.113



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, 38.581, 107.058



61, 55.084, 106.239



46, 42.192, 127.715



25, 3.860, 111.122



49, 56.373, 105.451



95, 95.588, 105.593

Inverse Universe

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



24, 45.276, 299.659



27, 68.174, 302.153



28, 45.521, 312.894



22, 3.940, 292.712



12, 77.464, 306.497



32, 131.592, 306.375

Previews

White Background



This preview shows how the CIELCh color 48, 38.580, 107.056 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, 38.580, 107.056 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

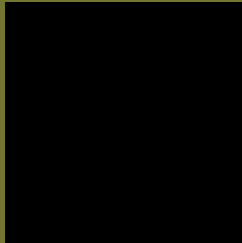
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 38.580, 107.056

Background



This preview shows how black text looks on a background with the CIELCh color 48, 38.580, 107.056.



This preview shows how white text looks on a background with the CIELCh color 48, 38.580, 107.056.

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, 38.580, 107.056

Protanopia

48, 37.770, 95.566

Deuteranopia

48, 36.365, 79.640



Tritanopia
48, 6.504, 333.743

Trichromacy



Original Color
48, 38.580, 107.056

Protanomaly
48, 37.871, 99.228

Deuteranomaly
48, 36.174, 89.970

Tritanomaly
48, 11.914, 98.090

Monochromacy



Original Color
48, 38.580, 107.056

Achromatopsia
46, 0.006, 296.813

Achromatomaly
47, 14.685, 109.841

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 38.580, 107.056 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(115, 118, 49)` looks like.

```
.text, #text, p{  
    color:rgb(115, 118, 49)  
}
```

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(115, 118, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 118, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 38.580, 107.056 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(115, 118, 49) }
```

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

```
.border{ border-color:rgb(115, 118, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(115, 118, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 118, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 118, 49);  
box-shadow:4px 4px 4px 4px rgb(115, 118,  
49) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 38.580, 107.056 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 118, 49) }
```

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

```
.background{ background-color: rgb(115,  
118, 49) }
```

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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