

Converting Colors

CIELCh(48, 40.087, 77.739)

Have a look what the booklet for
CIELCh(48, 40.087, 77.739) contains.

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Color

CIELCh(48, 40.010, 77.683)

Conversions

Conversions Part 1

Format	Color
Hex	916B2E
RGB	145, 107, 46
RGB Percent	57%, 42%, 18%
CMY	0.4305, 0.5796, 0.8189
CMYK	0.00, 0.26, 0.68, 0.43
HSL	37°, 52%, 38%
HSV	37°, 68%, 57%
XYZ	17.4906, 16.7945, 4.9241
YIQ	111.4080, 42.2290, -10.9150

Conversions

Conversions Part 2

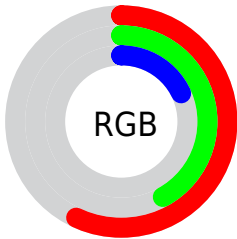
Format	Color
RYB	108, 145, 46
Decimal	9530158
CIELab	48.00, 8.53, 39.09
CIELCh	48, 40.010, 77.683
Yxy	16.7945, 0.4461, 0.4283
Android (android.graphics.Color)	4287720238 (0xFF916B2E)
YUV	111.4080, -32.2461, 29.4602
Hunter-Lab	40.9810, 4.4663, 21.5627

Details

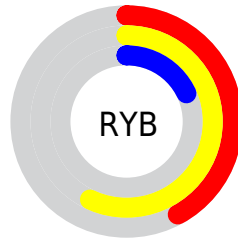
The CIELCh color **48, 40.010, 77.683** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **36, 38.435, 281.222**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 39.893, 77.269**, and **28, 38.662, 77.035** is the 20% darker color. If you saturate the color by 10%, you get **46, 45.536, 76.053**, and if you desaturate by 10%, it is **50, 34.059, 79.179**.

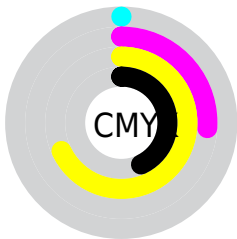
Distribution



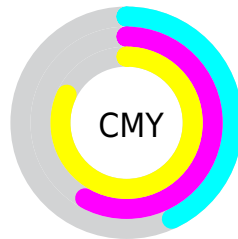
- Red (57%)
- Green (42%)
- Blue (18%)



- Red (42%)
- Yellow (57%)
- Blue (18%)



- Cyan (0%)
- Magenta (26%)
- Yellow (68%)
- Black (43%)





















- Cyan (43%)
- Magenta (58%)
- Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 40.010, 77.683 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, 40.010, 77.683 by changing the saturation by 10% instead.

 48, 40.010, 77.683	 48, 40.010, 77.683
 100, 40.010, 77.683	 38, 40.010, 77.683
 68, 40.010, 77.683	 28, 40.010, 77.683
 78, 40.010, 77.683	 18, 40.010, 77.683
 88, 40.010, 77.683	 8, 40.010, 77.683
 98, 40.010, 77.683	 0, 40.010, 77.683

 48, 40.010, 77.683	 48, 40.010, 77.683
 46, 45.536, 76.053	 50, 34.059, 79.179
 45, 50.155, 74.149	 51, 27.978, 80.595

■ 43, 53.614, 71.924

■ 53, 21.923, 81.963

■ 43, 54.287, 71.562

■ 55, 15.975, 83.292

■ 57, 10.168, 84.582

■ 59, 4.513, 85.815

■ 61, 0.991, 267.304

■ 63, 6.352, 268.290

■ 65, 11.582,
269.401

Harmonies

Complementary

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



48, 40.010, 77.683



36, 38.435, 281.222

Rectangle

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



48, 40.010, 77.683



48, 40.010, 127.683



48, 40.010, 257.683



48, 40.010, 307.683

Sweetspot

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



48, 40.010, 77.686



72, 13.884, 84.300



35, 45.022, 359.086



37, 9.475, 83.979



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



48, 40.010, 77.686



59, 58.506, 75.050



58, 51.966, 109.153



29, 3.073, 85.700



40, 51.513, 71.792



1, 2.057, 86.860

Inverse Universe

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



36, 38.435, 281.222



41, 57.910, 286.691



26, 63.356, 302.768



28, 3.056, 268.088



24, 54.574, 292.453



1, 2.058, 266.869

Previews

White Background



This preview shows how the CIELCh color 48, 40.010, 77.683 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, 40.010, 77.683 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

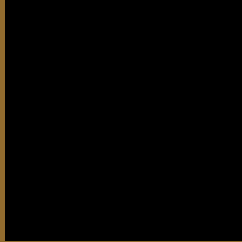
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 40.010, 77.683

Background



This preview shows how black text looks on a background with the CIELCh color 48, 40.010, 77.683.



This preview shows how white text looks on a background with the CIELCh color 48, 40.010, 77.683.

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, 40.010, 77.683

Protanopia

48, 37.770, 95.566

Deuteranopia

48, 39.659, 81.299



Tritanopia
48, 21.195, 11.211

Trichromacy



Original Color
48, 40.010, 77.683

Protanomaly
48, 38.435, 89.043

Deuteranomaly
48, 39.693, 79.787

Tritanomaly
48, 23.121, 46.694

Monochromacy



Original Color
48, 40.010, 77.683

Achromatopsia
47, 0.006, 296.813

Achromatomaly
47, 14.407, 82.795

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 40.010, 77.683 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(145, 107, 46)` looks like.

```
.text, #text, p{  
    color:rgb(145, 107, 46)  
}
```

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(145, 107, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 107, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 40.010, 77.683 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(145, 107, 46) }
```

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

```
.border{ border-color:rgb(145, 107, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(145, 107, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 107, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 107, 46);  
box-shadow:4px 4px 4px 4px rgb(145, 107,  
46) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 40.010, 77.683 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 107, 46) }
```

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

```
.background{ background-color: rgb(145,  
107, 46) }
```

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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