

Converting Colors

CIELCh(46, 38.464, 80.338)

Have a look what the booklet for
CIELCh(46, 38.464, 80.338) contains.

CIELCh(46, 38.464, 80.338)	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(46, 38.464, 80.338)

Conversions

Conversions Part 1

Format	Color
Hex	89682C
RGB	137, 104, 44
RGB Percent	54%, 41%, 17%
CMY	0.4647, 0.5939, 0.8291
CMYK	0.00, 0.24, 0.68, 0.46
HSL	39°, 52%, 35%
HSV	39°, 68%, 54%
XYZ	15.5897, 15.2687, 4.4669
YIQ	107.0270, 38.9280, -11.6640

Conversions

Conversions Part 2

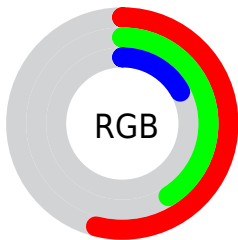
Format	Color
RYB	95, 137, 44
Decimal	9005100
CIELab	46.00, 6.46, 37.92
CIELCh	46, 38.464, 80.338
Yxy	15.2687, 0.4413, 0.4322
Android (android.graphics.Color)	4287195180 (0xFF89682C)
YUV	107.0270, -31.0723, 26.2863
Hunter-Lab	39.0751, 2.8343, 20.5748

Details

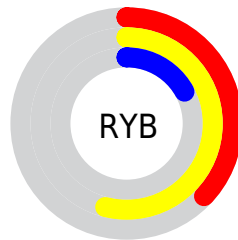
The CIELCh color **46, 38.464, 80.338** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **33, 38.136, 283.361**, and the grayscale version is **45, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 38.668, 80.531**, and **26, 36.405, 78.956** is the 20% darker color. If you saturate the color by 10%, you get **45, 43.650, 78.744**, and if you desaturate by 10%, it is **47, 32.832, 81.813**.

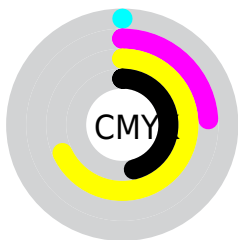
Distribution



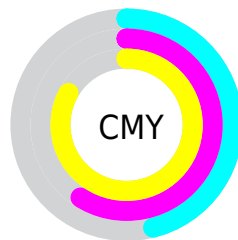
- Red (54%)
- Green (41%)
- Blue (17%)



- Red (37%)
- Yellow (54%)
- Blue (17%)



- Cyan (0%)
- Magenta (24%)
- Yellow (68%)
- Black (46%)



- Cyan (46%)
- Magenta (59%)
- Yellow (83%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 38.464, 80.338 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 46, 38.464, 80.338 by changing the saturation by 10% instead.

■ 46, 38.464, 80.338

■ 46, 38.464, 80.338

■ 100, 38.464,
80.338

■ 36, 38.464, 80.338

■ 66, 38.464, 80.338

■ 26, 38.464, 80.338

■ 76, 38.464, 80.338

■ 16, 38.464, 80.338

■ 86, 38.464, 80.338

■ 6, 38.464, 80.338

■ 96, 38.464, 80.338

■ 0, 38.464, 80.338

■ 46, 38.464, 80.338

■ 46, 38.464, 80.338

■ 45, 43.650, 78.744

■ 47, 32.832, 81.813

■ 43, 47.943, 76.912

■ 49, 27.035, 83.215

■ 42, 51.170, 74.822

■ 51, 21.226, 84.570

■ 42, 51.847, 74.460

■ 52, 15.487, 85.885

■ 54, 9.857, 87.160

■ 56, 4.350, 88.379

■ 57, 1.032, 269.811

■ 59, 6.292, 270.809

■ 61, 11.438,
271.902

Harmonies

Complementary

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



46, 38.464, 80.338



33, 38.136, 283.361

Rectangle

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



46, 38.464, 80.338



46, 38.464, 130.338



46, 38.464, 260.338



46, 38.464, 310.338

Sweetspot

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



46, 38.464, 80.341



69, 13.613, 86.862



33, 42.457, 1.478



35, 9.278, 86.554



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



46, 38.464, 80.341



57, 56.332, 77.727



54, 49.554, 110.798



28, 3.065, 88.251



40, 50.767, 74.549



1, 1.413, 89.392

Inverse Universe

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



33, 38.136, 283.361



38, 58.078, 288.714



25, 60.012, 303.340



27, 3.059, 270.596



23, 56.482, 294.296



0, 1.413, 269.399

Previews

White Background



This preview shows how the CIELCh color 46, 38.464, 80.338 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 46, 38.464, 80.338 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

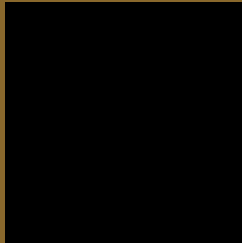
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 38.464, 80.338

Background



This preview shows how black text looks on a background with the CIELCh color 46, 38.464, 80.338.



This preview shows how white text looks on a background with the CIELCh color 46, 38.464, 80.338.

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

46, 38.464, 80.338

Protanopia

46, 36.918, 95.217

Deuteranopia

46, 38.704, 81.193



Tritanopia
46, 19.273, 8.005

Trichromacy



Original Color
46, 38.464, 80.338

Protanomaly
46, 37.323, 89.917

Deuteranomaly
46, 38.704, 81.193

Tritanomaly
46, 20.884, 47.913

Monochromacy



Original Color
46, 38.464, 80.338

Achromatopsia
45, 0.006, 296.813

Achromatomaly
45, 14.127, 85.975

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 38.464, 80.338 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(137, 104, 44)` looks like.

```
.text, #text, p{  
    color:rgb(137, 104, 44)  
}
```

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(137, 104, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 104, 44) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 38.464, 80.338 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(137, 104, 44) }
```

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

```
.border{ border-color:rgb(137, 104, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 104, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 104, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 104, 44);  
box-shadow:4px 4px 4px 4px rgb(137, 104,  
44) }
```

Background

The CSS property to change the background color of an element to CIELCh 46, 38.464, 80.338 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 104, 44) }
```

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

```
.background{ background-color: rgb(137,  
104, 44) }
```

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