

Converting Colors

CIELCh(45, 46.594, 69.136)

Have a look what the booklet for
CIELCh(45, 46.594, 69.136) contains.

CIELCh(45, 46.886, 69.428)	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(45, 46.886, 69.428)

Conversions

Conversions Part 1

Format	Color
Hex	945F1E
RGB	148, 95, 30
RGB Percent	58%, 37%, 12%
CMY	0.4177, 0.6291, 0.8841
CMYK	0.00, 0.36, 0.80, 0.42
HSL	33°, 67%, 35%
HSV	33°, 80%, 58%
XYZ	16.5858, 14.5417, 3.1315
YIQ	103.4370, 52.4530, -8.9790

Conversions

Conversions Part 2

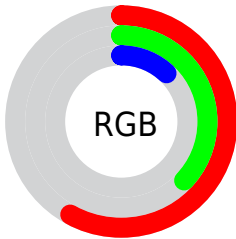
Format	Color
R_{YB}	126, 148, 30
Decimal	9723678
CIE _{Lab}	45.00, 16.47, 43.90
CIE _{LCh}	45, 46.886, 69.428
Yxy	14.5417, 0.4841, 0.4245
Android (android.graphics.Color)	4287913758 (0xFF945F1E)
YUV	103.4370, -36.2044, 39.0818
Hunter-Lab	38.1336, 10.9027, 21.8247

Details

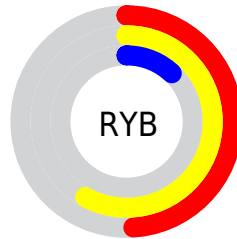
The CIELCh color **45, 46.886, 69.428** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **35, 41.302, 279.477**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 46.642, 70.271**, and **25, 39.093, 64.958** is the 20% darker color. If you saturate the color by 10%, you get **43, 51.838, 67.452**, and if you desaturate by 10%, it is **47, 41.049, 71.056**.

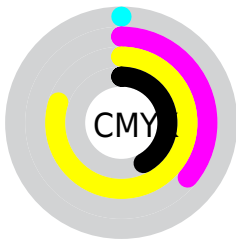
Distribution



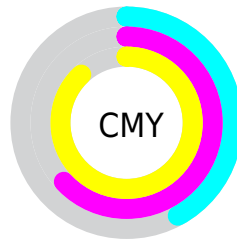
- Red (58%)
- Green (37%)
- Blue (12%)



- Red (49%)
- Yellow (58%)
- Blue (12%)



- Cyan (0%)
- Magenta (36%)
- Yellow (80%)
- Black (42%)



- Cyan (42%)
- Magenta (63%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 46.886, 69.428 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 45, 46.886, 69.428 by changing the saturation by 10% instead.

 45, 46.886, 69.428

 45, 46.886, 69.428

 100, 46.886,
69.428

 35, 46.886, 69.428

 65, 46.886, 69.428

 25, 46.886, 69.428

 75, 46.886, 69.428

 15, 46.886, 69.428

 85, 46.886, 69.428

 5, 46.886, 69.428

 95, 46.886, 69.428

 0, 46.886, 69.428

 45, 46.886, 69.428

 45, 46.886, 69.428

 43, 51.838, 67.452

 47, 41.049, 71.056

 42, 55.887, 65.249

 49, 34.863, 72.508

■ 51, 28.634, 73.879

■ 53, 22.519, 75.209

■ 55, 16.588, 76.511

■ 57, 10.865, 77.785

■ 59, 5.354, 79.014

■ 61, 0.044, 74.178

■ 64, 5.082, 261.524

Harmonies

Complementary

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



45, 46.886, 69.428



35, 41.302, 279.477

Rectangle

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



45, 46.886, 69.428



45, 46.886, 119.428



45, 46.886, 249.428



45, 46.886, 299.428

Sweetspot

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



45, 46.885, 69.431



72, 16.260, 77.228



34, 52.006, 357.271



37, 11.207, 76.816



89, 0.011, 296.813



41, 0.006, 296.813

Same Dimension

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



45, 46.885, 69.431



55, 66.564, 65.465



59, 58.947, 105.253



30, 2.981, 79.120



39, 52.852, 65.515



2, 2.573, 80.292

Inverse Universe

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



35, 41.302, 279.477



41, 61.866, 286.842



22, 76.158, 303.851



30, 2.939, 261.539



28, 48.828, 287.211



1, 2.574, 260.303

Previews

White Background



This preview shows how the CIELCh color 45, 46.886, 69.428 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 45, 46.886, 69.428 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 45, 46.886, 69.428

Background



This preview shows how black text looks on a background with the CIELCh color 45, 46.886, 69.428.



This preview shows how white text looks on a background with the CIELCh color 45, 46.886, 69.428.

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

45, 46.568, 69.880

Protanopia

45, 41.588, 95.455

Deuteranopia

45, 44.591, 82.425



Tritanopia
45, 28.223, 15.296

Trichromacy



Original Color
45, 46.568, 69.880

Protanomaly
45, 41.970, 85.033

Deuteranomaly
45, 45.064, 77.902

Tritanomaly
45, 31.566, 43.225

Monochromacy



Original Color
45, 46.568, 69.880

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 17.151, 75.637

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 46.886, 69.428 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(148, 95, 30)` looks like.

```
.text, #text, p{  
    color:rgb(148, 95, 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(148, 95, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 95, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 46.886, 69.428 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(148, 95, 30) }
```

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

```
.border{ border-color:rgb(148, 95, 30) }
```

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

Here you see how a box with a 4 pixel rgb(148, 95, 30) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 95, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 95, 30);  
box-shadow:4px 4px 4px 4px rgb(148, 95,  
30) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 46.886, 69.428 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 95, 30) }
```

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

```
.background{ background-color: rgb(148, 95,  
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