

Converting Colors

CIELCh(49, 45.776, 91.170)

Have a look what the booklet for
CIELCh(49, 45.776, 91.170) contains.

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Color

CIELCh(49, 45.816, 91.225)

Conversions

Conversions Part 1

Format	Color
Hex	887321
RGB	136, 115, 33
RGB Percent	53%, 45%, 13%
CMY	0.4668, 0.5491, 0.8707
CMYK	0.00, 0.15, 0.76, 0.47
HSL	48°, 61%, 33%
HSV	48°, 76%, 53%
XYZ	16.5479, 17.5941, 3.9600
YIQ	111.9310, 38.8380, -21.0500

Conversions

Conversions Part 2

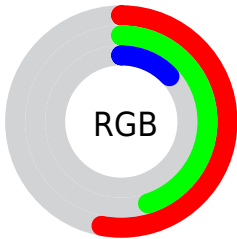
Format	Color
R_{YB}	59, 136, 33
Decimal	8942369
CIE Lab	49.00, -0.98, 45.81
CIE LCh	49, 45.816, 91.225
Yxy	17.5941, 0.4343, 0.4618
Android (android.graphics.Color)	4287132449 (0xFF887321)
YUV	111.9310, -38.9130, 21.1085
Hunter-Lab	41.9453, -2.9841, 23.7642

Details

The CIELCh color **49, 45.816, 91.225** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **26, 53.161, 294.896**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **69, 45.675, 91.522**, and **29, 38.110, 89.807** is the 20% darker color. If you saturate the color by 10%, you get **48, 49.865, 89.933**, and if you desaturate by 10%, it is **50, 40.713, 92.474**.

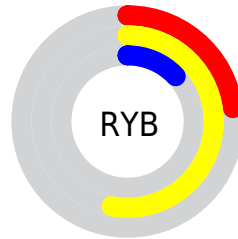
Distribution



Red (53%)

Green (45%)

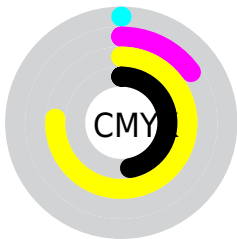
Blue (13%)



Red (23%)

Yellow (53%)

Blue (13%)

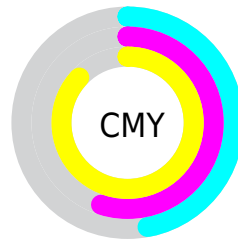


Cyan (0%)

Magenta (15%)

Yellow (76%)

Black (47%)



Cyan (47%)



















Magenta (55%)

Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 45.816, 91.225 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 49, 45.816, 91.225 by changing the saturation by 10% instead.

 49, 45.816, 91.225	 49, 45.816, 91.225
 100, 45.816, 91.225	 39, 45.816, 91.225
 69, 45.816, 91.225	 29, 45.816, 91.225
 79, 45.816, 91.225	 19, 45.816, 91.225
 89, 45.816, 91.225	 9, 45.816, 91.225
 99, 45.816, 91.225	 0, 45.816, 91.225
 49, 45.816, 91.225	 49, 45.816, 91.225
 48, 49.865, 89.933	 50, 40.713, 92.474
 47, 52.516, 88.551	 51, 34.967, 93.697

47, 53.575, 87.978

52, 28.865, 94.906

53, 22.590, 96.100

54, 16.251, 97.273

55, 9.909, 98.417

56, 3.600, 99.513

57, 2.657, 280.672

58, 8.853, 281.680

Harmonies

Complementary

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



49, 45.816, 91.225



26, 53.161, 294.896

Rectangle

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



49, 45.816, 91.225



49, 45.816, 141.225



49, 45.816, 271.225



49, 45.816, 321.225

Sweetspot

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



49, 45.816, 91.228



69, 17.904, 97.533



31, 46.212, 15.793



36, 12.500, 97.163



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



49, 45.816, 91.228



61, 62.670, 88.939



53, 54.863, 117.676



29, 3.576, 99.148



46, 52.624, 88.018



1, 1.659, 100.169

Inverse Universe

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



26, 53.161, 294.896



28, 80.236, 299.884



23, 65.947, 307.286



27, 3.614, 281.249



18, 69.980, 301.561



0, 1.659, 280.174

Previews

White Background



This preview shows how the CIELCh color 49, 45.816, 91.225 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 49, 45.816, 91.225 looks on a black 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

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

CIELCh 49, 45.816, 91.225

Background



This preview shows how black text looks on a background with the CIELCh color 49, 45.816, 91.225.



This preview shows how white text looks on a background with the CIELCh color 49, 45.816, 91.225.

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

49, 45.816, 91.225

Protanopia

49, 45.912, 95.570

Deuteranopia

49, 45.744, 82.364



Tritanopia
49, 15.414, 1.526

Trichromacy



Original Color
49, 45.816, 91.225

Protanomaly
49, 45.774, 93.700

Deuteranomaly
49, 45.573, 85.479

Tritanomaly
49, 19.777, 64.949

Monochromacy



Original Color
49, 45.816, 91.225

Achromatopsia
47, 0.006, 296.813

Achromatomaly
48, 17.914, 96.225

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 45.816, 91.225 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(136, 115, 33)` looks like.

```
.text, #text, p{  
    color:rgb(136, 115, 33)  
}
```

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(136, 115, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 115, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 45.816, 91.225 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(136, 115, 33) }
```

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

```
.border{ border-color:rgb(136, 115, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 115, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 115, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 115, 33);  
box-shadow:4px 4px 4px 4px rgb(136, 115,  
33) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 45.816, 91.225 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 115, 33) }
```

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

```
.background{ background-color: rgb(136,  
115, 33) }
```

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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