

Converting Colors

CIELCh(45, 47.023, 48.725)

Have a look what the booklet for
CIELCh(45, 47.023, 48.725) contains.

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Color

CIELCh(45, 47.452, 48.521)

Conversions

Conversions Part 1

Format	Color
Hex	A65330
RGB	166, 83, 48
RGB Percent	65%, 33%, 19%
CMY	0.3485, 0.6740, 0.8113
CMYK	0.00, 0.50, 0.71, 0.35
HSL	18°, 55%, 42%
HSV	18°, 71%, 65%
XYZ	19.3940, 14.5417, 4.5930
YIQ	103.8270, 60.7030, 6.7110

Conversions

Conversions Part 2

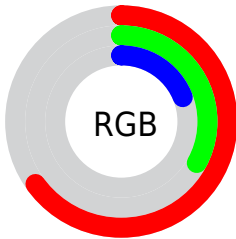
Format	Color
RYB	166, 98, 48
Decimal	10900272
CIELab	45.00, 31.43, 35.55
CIElCh	45, 47.452, 48.521
Yxy	14.5417, 0.5034, 0.3774
Android (android.graphics.Color)	4289090352 (0xFFA65330)
YUV	103.8270, -27.5227, 54.5257
Hunter-Lab	38.1336, 24.0479, 19.5523

Details

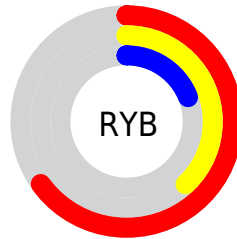
The CIELCh color **45, 47.452, 48.521** is a dark color, and the websafe version is hex **CC6633**. A complement of this color would be **51, 29.019, 242.966**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 47.491, 48.214**, and **25, 47.216, 48.867** is the 20% darker color. If you saturate the color by 10%, you get **42, 55.434, 48.442**, and if you desaturate by 10%, it is **48, 39.487, 48.583**.

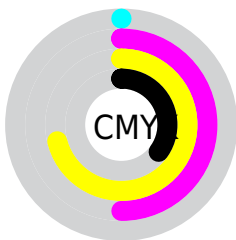
Distribution



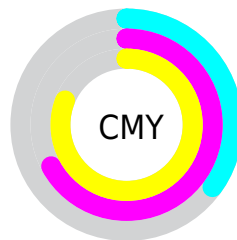
- Red (65%)
- Green (33%)
- Blue (19%)



- Red (65%)
- Yellow (38%)
- Blue (19%)



- Cyan (0%)
- Magenta (50%)
- Yellow (71%)
- Black (35%)





















- Cyan (35%)
- Magenta (67%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 47.452, 48.521 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, 47.452, 48.521 by changing the saturation by 10% instead.

- | | |
|---|--|
|  45, 47.452, 48.521 |  45, 47.452, 48.521 |
|  100, 47.452, 48.521 |  35, 47.452, 48.521 |
|  65, 47.452, 48.521 |  25, 47.452, 48.521 |
|  75, 47.452, 48.521 |  15, 47.452, 48.521 |
|  85, 47.452, 48.521 |  5, 47.452, 48.521 |
|  95, 47.452, 48.521 |  0, 47.452, 48.521 |

- | | |
|--|--|
|  45, 47.452, 48.521 |  45, 47.452, 48.521 |
|  42, 55.434, 48.442 |  48, 39.487, 48.583 |
|  40, 62.769, 48.038 |  51, 31.846, 48.732 |

38, 68.526, 47.532

54, 24.651, 49.001

57, 17.938, 49.383

61, 11.702, 49.857

64, 5.914, 50.384

68, 0.535, 50.253

71, 4.477, 231.836

75, 9.162, 232.467

Harmonies

Complementary

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



45, 47.452, 48.521



51, 29.019, 242.966

Rectangle

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



45, 47.452, 48.521



45, 47.452, 98.521



45, 47.452, 228.521



45, 47.452, 278.521

Sweetspot

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



45, 47.450, 48.524



77, 14.520, 49.840



41, 60.107, 339.420



40, 10.007, 49.708



94, 0.011, 296.813



46, 0.006, 296.813

Same Dimension

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



45, 47.450, 48.524



54, 72.698, 48.288



59, 50.674, 90.739



34, 3.043, 50.474



34, 62.658, 47.828



3, 5.439, 46.057

Inverse Universe

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



51, 29.019, 242.966



63, 39.757, 248.877



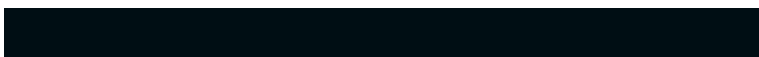
34, 57.403, 293.246



34, 2.897, 231.906



41, 32.199, 254.518



3, 5.411, 240.398

Previews

White Background



This preview shows how the CIELCh color 45, 47.452, 48.521 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, 47.452, 48.521 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, 47.452, 48.521

Background



This preview shows how black text looks on a background with the CIELCh color 45, 47.452, 48.521.



This preview shows how white text looks on a background with the CIELCh color 45, 47.452, 48.521.

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, 47.452, 48.521

Protanopia

45, 30.082, 95.895

Deuteranopia

45, 37.143, 81.074



Tritanopia
45, 39.832, 21.550

Trichromacy



Original Color
45, 47.452, 48.521

Protanomaly
45, 32.922, 72.021

Deuteranomaly
45, 39.313, 66.887

Tritanomaly
45, 41.125, 33.073

Monochromacy



Original Color
45, 47.452, 48.521

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 15.919, 47.409

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 47.452, 48.521 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(166, 83, 48)` looks like.

```
.text, #text, p{  
    color:rgb(166, 83, 48)  
}
```

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(166, 83, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 83, 48) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 47.452, 48.521 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(166, 83, 48) }
```

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

```
.border{ border-color:rgb(166, 83, 48) }
```

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

Here you see how a box with a 4 pixel rgb(166, 83, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 83, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 83, 48);  
box-shadow:4px 4px 4px 4px rgb(166, 83,  
48) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 47.452, 48.521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 83, 48) }
```

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

```
.background{ background-color: rgb(166, 83,  
48) }
```

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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