

Converting Colors

CIELCh(45, 46.922, 52.641)

Have a look what the booklet for
CIELCh(45, 46.922, 52.641) contains.

CIELCh(45, 46.821, 52.662)	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, 46.821, 52.662)

Conversions

Conversions Part 1

Format	Color
Hex	A3562D
RGB	163, 86, 45
RGB Percent	64%, 34%, 18%
CMY	0.3622, 0.6639, 0.8247
CMYK	0.00, 0.47, 0.73, 0.36
HSL	21°, 57%, 41%
HSV	21°, 73%, 64%
XYZ	18.8009, 14.5417, 4.2694
YIQ	104.3490, 59.0530, 3.5730

Conversions

Conversions Part 2

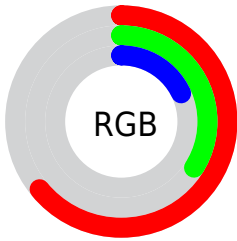
Format	Color
RYB	163, 108, 45
Decimal	10704429
CIELab	45.00, 28.40, 37.23
CIELCh	45, 46.821, 52.662
Yxy	14.5417, 0.4999, 0.3866
Android (android.graphics.Color)	4288894509 (0xFFA3562D)
YUV	104.3490, -29.2591, 51.4369
Hunter-Lab	38.1336, 21.2715, 20.0554

Details

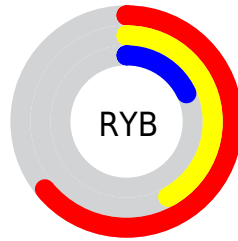
The CIELCh color **45, 46.821, 52.662** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **48, 30.265, 251.688**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 46.586, 52.696**, and **25, 46.049, 51.435** is the 20% darker color. If you saturate the color by 10%, you get **43, 54.321, 52.071**, and if you desaturate by 10%, it is **48, 39.226, 53.151**.

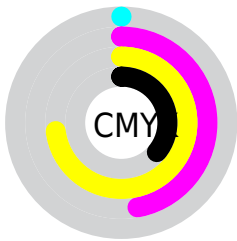
Distribution



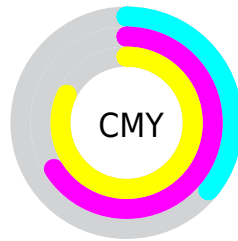
- Red (64%)
- Green (34%)
- Blue (18%)



- Red (64%)
- Yellow (42%)
- Blue (18%)



- Cyan (0%)
- Magenta (47%)
- Yellow (73%)
- Black (36%)



- Cyan (36%)
- Magenta (66%)
- Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 46.821, 52.662 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, 46.821, 52.662 by changing the saturation by 10% instead.

■ 45, 46.821, 52.662

■ 45, 46.821, 52.662

■ 100, 46.821,
52.662

■ 35, 46.821, 52.662

■ 65, 46.821, 52.662

■ 25, 46.821, 52.662

■ 75, 46.821, 52.662

■ 15, 46.821, 52.662

■ 85, 46.821, 52.662

■ 5, 46.821, 52.662

■ 95, 46.821, 52.662

■ 0, 46.821, 52.662

■ 45, 46.821, 52.662

■ 45, 46.821, 52.662

■ 43, 54.321, 52.071

■ 48, 39.226, 53.151

■ 40, 61.030, 51.056

■ 50, 31.877, 53.661

39, 65.577, 50.271

53, 24.914, 54.243

56, 18.383, 54.900

60, 12.284, 55.619

63, 6.593, 56.374

66, 1.275, 56.934

69, 3.706, 238.208

73, 8.389, 238.995

Harmonies

Complementary

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



45, 46.821, 52.662



48, 30.265, 251.688

Rectangle

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



45, 46.821, 52.662



45, 46.821, 102.662



45, 46.821, 232.662



45, 46.821, 282.662

Sweetspot

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



45, 46.820, 52.665



76, 14.874, 55.626



40, 58.038, 342.304



39, 10.165, 55.437



93, 0.011, 296.813



45, 0.006, 296.813

Same Dimension

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



45, 46.820, 52.665



54, 71.266, 51.530



60, 52.379, 94.086



33, 2.957, 56.613



35, 60.188, 50.621



2, 4.474, 53.393

Inverse Universe

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



48, 30.265, 251.688



58, 42.287, 258.460



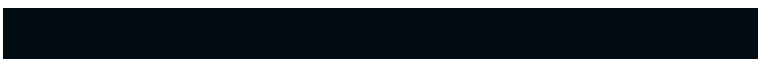
32, 61.668, 296.036



33, 2.833, 238.403



38, 34.564, 263.370



3, 4.544, 244.531

Previews

White Background



This preview shows how the CIELCh color 45, 46.821, 52.662 looks on a white background.

Color Contrast Check

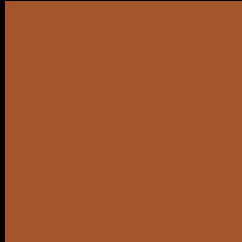
Large Text (above 18pt) WCAG AA ✓ Pass

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 45, 46.821, 52.662 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

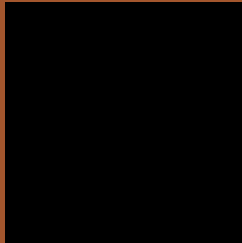
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 46.821, 52.662

Background



This preview shows how black text looks on a background with the CIELCh color 45, 46.821, 52.662.



This preview shows how white text looks on a background with the CIELCh color 45, 46.821, 52.662.

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, 46.821, 52.662

Protanopia

45, 32.825, 95.423

Deuteranopia

45, 38.560, 81.702



Tritanopia
45, 37.413, 19.947

Trichromacy



Original Color
45, 46.821, 52.662

Protanomaly
45, 34.699, 75.300

Deuteranomaly
45, 40.350, 69.374

Tritanomaly
45, 38.937, 33.947

Monochromacy



Original Color
45, 46.821, 52.662

Achromatopsia
44, 0.006, 296.813

Achromatomaly
44, 15.745, 54.965

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 46.821, 52.662 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(163, 86, 45)` looks like.

```
.text, #text, p{  
    color:rgb(163, 86, 45)  
}
```

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(163, 86, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 86, 45) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 46.821, 52.662 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(163, 86, 45) }
```

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

```
.border{ border-color:rgb(163, 86, 45) }
```

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

Here you see how a box with a 4 pixel rgb(163, 86, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 86, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 86, 45);  
box-shadow:4px 4px 4px 4px rgb(163, 86,  
45) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 46.821, 52.662 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 86, 45) }
```

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

```
.background{ background-color: rgb(163, 86,  
45) }
```

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