

Converting Colors

CIELCh(45, 66.208, 66.513)

Have a look what the booklet for
CIELCh(45, 66.208, 66.513) contains.

CIELCh(45, 60.138, 63.821)	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, 60.138, 63.821)

Conversions

Conversions Part 1

Format	Color
Hex	A35700
RGB	163, 87, 0
RGB Percent	64%, 34%, 0%
CMY	0.3618, 0.6596, 1.0000
CMYK	0.00, 0.47, 1.00, 0.36
HSL	32°, 100%, 32%
HSV	32°, 100%, 64%
XYZ	18.4419, 14.5417, 1.8271
YIQ	99.8060, 73.2230, -10.9450

Conversions

Conversions Part 2

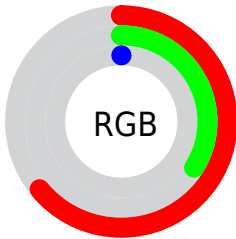
Format	Color
R _Y B	142, 163, 0
Decimal	10704640
CIE Lab	45.00, 26.53, 53.97
CIE LCh	45, 60.138, 63.821
Yxy	14.5417, 0.5298, 0.4177
Android (android.graphics.Color)	4288894720 (0xFFA35700)
YUV	99.8060, -49.2044, 55.4211
Hunter-Lab	38.1336, 19.5911, 23.8527

Details

The CIELCh color **45, 60.138, 63.821** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **34, 54.588, 286.724**, and the grayscale version is **42, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 60.286, 63.946**, and **25, 44.807, 53.256** is the 20% darker color. If you saturate the color by 10%, you get **45, 60.075, 63.791**, and if you desaturate by 10%, it is **47, 55.811, 66.137**.

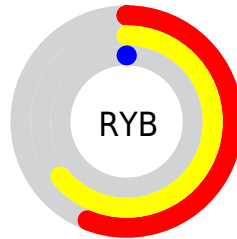
Distribution



Red (64%)

Green (34%)

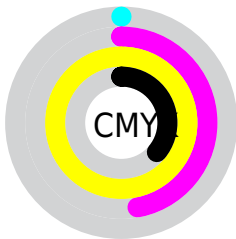
Blue (0%)



Red (56%)

Yellow (64%)

Blue (0%)

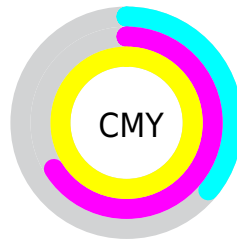


Cyan (0%)

Magenta (47%)

Yellow (100%)

Black (36%)



Cyan (36%)

Magenta (66%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 60.138, 63.821 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, 60.138, 63.821 by changing the saturation by 10% instead.

■ 45, 60.138, 63.821

■ 45, 60.138, 63.821

■ 100, 60.138,
63.821

■ 35, 60.138, 63.821

■ 65, 60.138, 63.821

■ 25, 60.138, 63.821

■ 75, 60.138, 63.821

■ 15, 60.138, 63.821

■ 85, 60.138, 63.821

■ 5, 60.138, 63.821

■ 95, 60.138, 63.821

■ 0, 60.138, 63.821

■ 45, 60.138, 63.821

■ 45, 60.138, 63.821

■ 45, 60.075, 63.791

■ 47, 55.811, 66.137

■ 49, 50.430, 68.135

■ 51, 44.088, 69.755

■ 53, 37.382, 71.195

■ 55, 30.648, 72.553

■ 57, 24.057, 73.873

■ 60, 17.683, 75.169

■ 62, 11.550, 76.439

■ 64, 5.658, 77.667

Harmonies

Complementary

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



45, 60.138, 63.821



34, 54.588, 286.724

Rectangle

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



45, 60.138, 63.821



45, 60.138, 113.821



45, 60.138, 243.821



45, 60.138, 293.821

Sweetspot

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



45, 60.075, 63.791



76, 21.925, 75.097



35, 60.372, 4.709



39, 15.202, 74.579



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, 60.075, 63.791



58, 73.252, 63.044



64, 69.320, 104.895



33, 3.203, 77.753



40, 55.221, 64.170



3, 4.735, 73.563

Inverse Universe

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



34, 54.588, 286.724



44, 67.655, 287.592



19, 95.451, 306.402



33, 3.151, 260.199



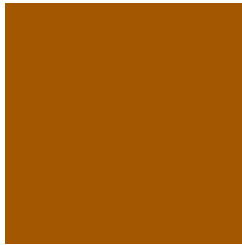
30, 49.759, 286.277



2, 5.109, 263.303

Previews

White Background



This preview shows how the CIELCh color 45, 60.138, 63.821 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, 60.138, 63.821 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, 60.138, 63.821

Background



This preview shows how black text looks on a background with the CIELCh color 45, 60.138, 63.821.



This preview shows how white text looks on a background with the CIELCh color 45, 60.138, 63.821.

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, 60.138, 63.821

Protanopia

45, 48.393, 95.074

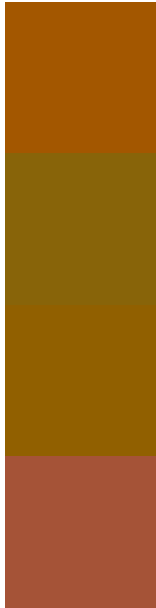
Deuteranopia

45, 52.467, 84.481



Tritanopia
45, 37.955, 20.950

Trichromacy



Original Color
45, 60.138, 63.821

Protanomaly
45, 50.309, 82.152

Deuteranomaly
45, 54.203, 75.815

Tritanomaly
45, 44.538, 45.104

Monochromacy



Original Color
45, 60.138, 63.821

Achromatopsia
42, 0.006, 296.813

Achromatomaly
42, 23.170, 72.207

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 60.138, 63.821 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, 87, 0)` looks like.

```
.text, #text, p{  
    color:rgb(163, 87, 0)  
}
```

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, 87, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 87, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 60.138, 63.821 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, 87, 0) }
```

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

```
.border{ border-color:rgb(163, 87, 0) }
```

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

Here you see how a box with a 4 pixel rgb(163, 87, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 87, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 87, 0);  
box-shadow:4px 4px 4px 4px rgb(163, 87, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 60.138, 63.821 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 87, 0) }
```

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

```
.background{ background-color: rgb(163, 87,  
0) }
```

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