

Converting Colors

CIELCh(45, 38.182, 105.305)

Have a look what the booklet for
CIELCh(45, 38.182, 105.305)
contains.

CIELCh(45, 38.230, 105.464)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(45, 38.230, 105.464)

Conversions

Conversions Part 1

Format	Color
Hex	6D6E2A
RGB	109, 110, 42
RGB Percent	43%, 43%, 16%
CMY	0.5730, 0.5690, 0.8357
CMYK	0.01, 0.00, 0.62, 0.57
HSL	61°, 45%, 30%
HSV	61°, 62%, 43%
XYZ	12.2755, 14.5417, 4.3415
YIQ	101.9490, 21.2320, -21.3600

Conversions

Conversions Part 2

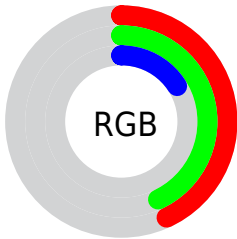
Format	Color
R_{YB}	42, 110, 43
Decimal	7171626
CIE _{Lab}	45.00, -10.19, 36.85
CIE _{LCh}	45, 38.230, 105.464
Yxy	14.5417, 0.3940, 0.4667
Android (android.graphics.Color)	4285361706 (0xFF6D6E2A)
YUV	101.9490, -29.5549, 6.1837
Hunter-Lab	38.1336, -9.2734, 19.9434

Details

The CIELCh color $45, 38.230, 105.464$ is a dark color, and the websafe version is hex 666633 . A complement of this color would be $21, 45.429, 299.590$, and the grayscale version is $43, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 37.815, 105.438$, and $25, 35.245, 106.521$ is the 20% darker color. If you saturate the color by 10%, you get $45, 43.160, 104.811$, and if you desaturate by 10%, it is $45, 32.685, 106.224$.

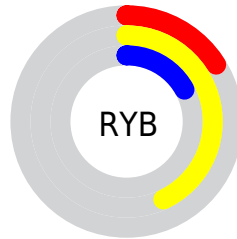
Distribution



Red (43%)

Green (43%)

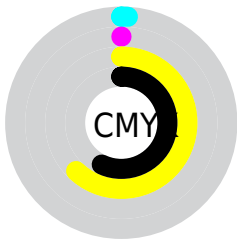
Blue (16%)



Red (16%)

Yellow (43%)

Blue (17%)

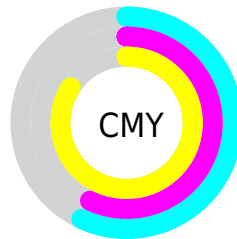


Cyan (1%)

Magenta (0%)

Yellow (62%)

Black (57%)



Cyan (57%)

Magenta (57%)

Yellow (84%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 38.230, 105.464 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, 38.230, 105.464 by changing the saturation by 10% instead.

 45, 38.230,
105.464

 45, 38.230,
105.464


 100, 38.230,
105.464

 35, 38.230,
105.464

 65, 38.230,
105.464

 25, 38.230,
105.464

 75, 38.230,
105.464

 15, 38.230,
105.464


 85, 38.230,
105.464

 5, 38.230, 105.464

 95, 38.230,
105.464

 0, 38.230, 105.464

 45, 38.230,

 45, 38.230,

105.464

105.464

■ 45, 43.160,
104.811

■ 45, 32.685,
106.224

■ 45, 47.206,
104.297

■ 45, 26.733,
107.052

■ 45, 50.109,
103.956

■ 46, 20.525,
107.922

■ 45, 52.140,
103.729

■ 46, 14.161,
108.812

■ 46, 7.709, 109.706

■ 46, 1.211, 110.567

■ 47, 5.303, 291.474

■ 47, 11.811,
292.314

■ 47, 18.301,

Harmonies

Complementary

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



45, 38.230, 105.464



21, 45.429, 299.590

Rectangle

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



45, 38.230, 105.464



45, 38.230, 155.464



45, 38.230, 285.464



45, 38.230, 335.464

Sweetspot

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



45, 38.230, 105.466



59, 15.264, 109.023



27, 33.981, 27.111



30, 10.424, 108.829



80, 0.010, 296.813



30, 0.005, 296.813

Same Dimension

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



45, 38.230, 105.466



57, 54.261, 104.581



43, 41.498, 126.472



23, 3.716, 109.958



49, 55.461, 103.737



94, 94.722, 103.788

Inverse Universe

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



21, 45.429, 299.590



23, 68.352, 302.431



25, 45.320, 312.021



21, 3.792, 291.616



12, 76.473, 306.360



31, 130.698, 306.317

Previews

White Background



This preview shows how the CIELCh color 45, 38.230, 105.464 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, 38.230, 105.464 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

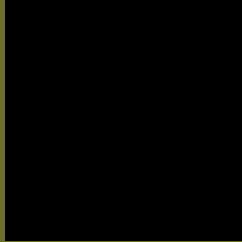
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 38.230, 105.464

Background



This preview shows how black text looks on a background with the CIELCh color 45, 38.230, 105.464.



This preview shows how white text looks on a background with the CIELCh color 45, 38.230, 105.464.

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, 38.230, 105.464

Protanopia

45, 37.846, 95.927

Deuteranopia

45, 36.227, 80.543



Tritanopia
45, 6.874, 336.332

Trichromacy



Original Color
45, 38.230, 105.464

Protanomaly
45, 37.964, 99.634

Deuteranomaly
45, 35.949, 89.378

Tritanomaly
45, 12.263, 93.850

Monochromacy



Original Color
45, 38.230, 105.464

Achromatopsia
43, 0.006, 296.813

Achromatomaly
44, 14.836, 108.013

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 38.230, 105.464 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(109, 110, 42)` looks like.

```
.text, #text, p{  
    color:rgb(109, 110, 42)  
}
```

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(109, 110, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 110, 42) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 38.230, 105.464 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(109, 110, 42) }
```

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

```
.border{ border-color:rgb(109, 110, 42) }
```

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

Here you see how a box with a 4 pixel rgb(109, 110, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 110, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 110, 42);  
box-shadow:4px 4px 4px 4px rgb(109, 110,  
42) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 38.230, 105.464 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 110, 42) }
```

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

```
.background{ background-color: rgb(109,  
110, 42) }
```

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