

Converting Colors

CIELCh(45, 45.471, 113.249)

Have a look what the booklet for
CIELCh(45, 45.471, 113.249)
contains.

CIELCh(45, 45.457, 112.950)	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, 45.457, 112.950)

Conversions

Conversions Part 1

Format	Color
Hex	62711E
RGB	98, 113, 30
RGB Percent	38%, 44%, 12%
CMY	0.6151, 0.5563, 0.8818
CMYK	0.13, 0.00, 0.73, 0.56
HSL	71°, 58%, 28%
HSV	71°, 73%, 44%
XYZ	11.2104, 14.5417, 3.4543
YIQ	99.0530, 17.7030, -28.9930

Conversions

Conversions Part 2

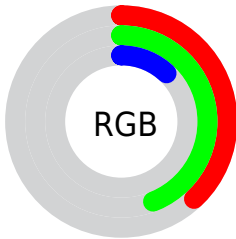
Format	Color
R_{YB}	30, 113, 45
Decimal	6451486
CIE _{Lab}	45.00, -17.72, 41.86
CIE _{LCh}	45, 45.457, 112.950
Yxy	14.5417, 0.3838, 0.4979
Android (android.graphics.Color)	4284641566 (0xFF62711E)
YUV	99.0530, -34.0431, -0.9235
Hunter-Lab	38.1336, -14.2588, 21.3228

Details

The CIELCh color **45, 45.457, 112.950** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **19, 55.386, 304.814**, and the grayscale version is **42, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 45.587, 113.050**, and **25, 37.085, 115.974** is the 20% darker color. If you saturate the color by 10%, you get **45, 49.560, 112.853**, and if you desaturate by 10%, it is **45, 40.424, 113.283**.

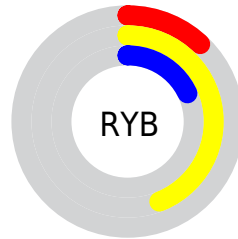
Distribution



Red (38%)

Green (44%)

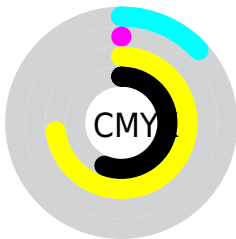
Blue (12%)



Red (12%)

Yellow (44%)

Blue (18%)

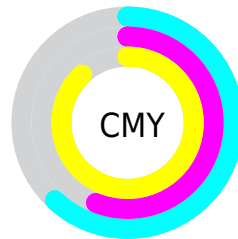


Cyan (13%)

Magenta (0%)

Yellow (73%)

Black (56%)



Cyan (62%)


Magenta (56%)


Yellow (88%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 45.457, 112.950 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, 45.457, 112.950 by changing the saturation by 10% instead.


 45, 45.457,
112.950


 45, 45.457,
112.950


 100, 45.457,
112.950


 35, 45.457,
112.950

 65, 45.457,
112.950


 25, 45.457,
112.950

 75, 45.457,
112.950

 15, 45.457,
112.950

 85, 45.457,
112.950

 5, 45.457, 112.950

 95, 45.457,
112.950

 0, 45.457, 112.950

 45, 45.457,

 45, 45.457,

112.950

■ 45, 49.560,
112.853

■ 45, 52.504,
113.049

■ 44, 54.283,
113.203

112.950

■ 45, 40.424,
113.283

■ 46, 34.735,
113.772

■ 46, 28.609,
114.363

■ 46, 22.207,
115.010

■ 47, 15.634,
115.683

■ 47, 8.965, 116.361

■ 48, 2.249, 117.031

■ 48, 4.481, 297.677

■ 49, 11.200,

Harmonies

Complementary

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



45, 45.457, 112.950



19, 55.386, 304.814

Rectangle

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



45, 45.457, 112.950



45, 45.457, 162.950



45, 45.457, 292.950



45, 45.457, 342.950

Sweetspot

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



45, 45.457, 112.952



60, 18.352, 115.735



28, 38.215, 39.138



31, 12.241, 115.601



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



45, 45.457, 112.952



58, 62.759, 112.962



43, 51.421, 131.479



23, 3.752, 116.655



47, 56.573, 113.263



91, 96.828, 113.820

Inverse Universe

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



19, 55.386, 304.814



20, 81.029, 306.517



24, 54.224, 317.239



21, 3.825, 297.874



13, 75.309, 307.353



32, 129.306, 306.994

Previews

White Background



This preview shows how the CIELCh color 45, 45.457, 112.950 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, 45.457, 112.950 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

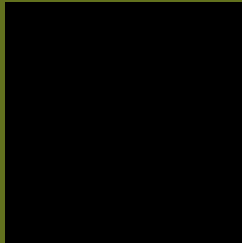
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 45.457, 112.950

Background



This preview shows how black text looks on a background with the CIELCh color 45, 45.457, 112.950.



This preview shows how white text looks on a background with the CIELCh color 45, 45.457, 112.950.

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, 45.457, 112.950

Protanopia

45, 43.577, 96.188

Deuteranopia

45, 41.077, 81.891



Tritanopia
45, 4.777, 290.856

Trichromacy



Original Color
45, 45.457, 112.950

Protanomaly
45, 43.567, 102.693

Deuteranomaly
45, 40.910, 93.929

Tritanomaly
45, 15.004, 118.147

Monochromacy



Original Color
45, 45.457, 112.950

Achromatopsia
42, 0.006, 296.813

Achromatomaly
43, 17.947, 114.738

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 45.457, 112.950 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(98, 113, 30)` looks like.

```
.text, #text, p{  
    color:rgb(98, 113, 30)  
}
```

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(98, 113, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 113, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 45.457, 112.950 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(98, 113, 30) }
```

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

```
.border{ border-color:rgb(98, 113, 30) }
```

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

Here you see how a box with a 4 pixel rgb(98, 113, 30) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 113, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 113, 30);  
box-shadow:4px 4px 4px 4px rgb(98, 113,  
30) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 45.457, 112.950 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 113, 30) }
```

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

```
.background{ background-color: rgb(98, 113,  
30) }
```

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