

Converting Colors

CIELCh(45, 47.469, 109.674)

Have a look what the booklet for
CIELCh(45, 47.469, 109.674)
contains.

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Color

CIELCh(45, 47.288, 109.447)

Conversions

Conversions Part 1

Format	Color
Hex	667017
RGB	102, 112, 23
RGB Percent	40%, 44%, 9%
CMY	0.5990, 0.5599, 0.9087
CMYK	0.09, 0.00, 0.79, 0.56
HSL	67°, 66%, 27%
HSV	67°, 79%, 44%
XYZ	11.4843, 14.5417, 3.0263
YIQ	98.8640, 22.6090, -29.7990

Conversions

Conversions Part 2

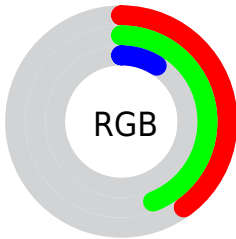
Format	Color
R_{YB}	23, 112, 33
Decimal	6713367
CIE Lab	45.00, -15.74, 44.59
CIE LCh	45, 47.288, 109.447
Yxy	14.5417, 0.3953, 0.5005
Android (android.graphics.Color)	4284903447 (0xFF667017)
YUV	98.8640, -37.4010, 2.7503
Hunter-Lab	38.1336, -12.9766, 21.9883

Details

The CIELCh color **45, 47.288, 109.447** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **16, 59.688, 304.394**, and the grayscale version is **42, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 47.692, 109.341**, and **25, 36.213, 113.078** is the 20% darker color. If you saturate the color by 10%, you get **45, 50.605, 109.348**, and if you desaturate by 10%, it is **45, 42.872, 109.786**.

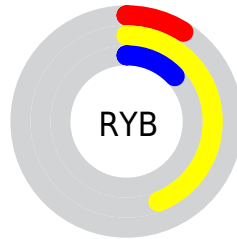
Distribution



Red (40%)

Green (44%)

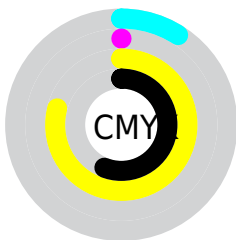
Blue (9%)



Red (9%)

Yellow (44%)

Blue (13%)

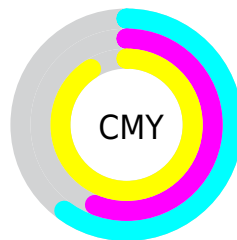


Cyan (9%)

Magenta (0%)

Yellow (79%)

Black (56%)



Cyan (60%)


Magenta (56%)

Yellow (91%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 47.288, 109.447 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, 47.288, 109.447 by changing the saturation by 10% instead.


 45, 47.288,
109.447


 45, 47.288,
109.447


 100, 47.288,
109.447


 35, 47.288,
109.447

 65, 47.288,
109.447


 25, 47.288,
109.447

 75, 47.288,
109.447

 15, 47.288,
109.447

 85, 47.288,
109.447

 5, 47.288, 109.447

 95, 47.288,
109.447

 0, 47.288, 109.447

 45, 47.288,

 45, 47.288,

109.447

■ 45, 50.605,
109.348

■ 45, 53.150,
109.402

■ 45, 53.344,
109.403

109.447

■ 45, 42.872,
109.786

■ 45, 37.638,
110.297

■ 46, 31.842,
110.927

■ 46, 25.680,
111.631

■ 46, 19.288,
112.375

■ 47, 12.757,
113.136

■ 47, 6.149, 113.895

■ 47, 0.494, 294.672

Harmonies

Complementary

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



45, 47.288, 109.447



16, 59.688, 304.394

Rectangle

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



45, 47.288, 109.447



45, 47.288, 159.447



45, 47.288, 289.447



45, 47.288, 339.447

Sweetspot

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



45, 47.288, 109.449



59, 19.600, 112.727



25, 43.115, 36.383



31, 13.551, 112.515



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, 47.288, 109.449



57, 63.116, 109.470



42, 53.108, 129.566



23, 3.731, 113.915



48, 55.909, 109.448



93, 95.570, 109.814

Inverse Universe

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



16, 59.688, 304.394



17, 84.591, 306.301



21, 57.379, 315.297



21, 3.806, 295.302



12, 75.872, 306.856



32, 130.102, 306.600

Previews

White Background



This preview shows how the CIELCh color 45, 47.288, 109.447 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, 47.288, 109.447 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

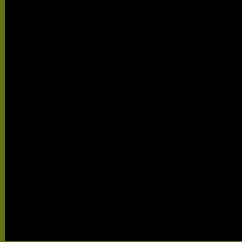
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 47.288, 109.447

Background



This preview shows how black text looks on a background with the CIELCh color 45, 47.288, 109.447.



This preview shows how white text looks on a background with the CIELCh color 45, 47.288, 109.447.

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, 47.288, 109.447

Protanopia

45, 45.878, 95.615

Deuteranopia

45, 43.808, 82.173



Tritanopia
45, 5.210, 313.569

Trichromacy



Original Color
45, 47.288, 109.447

Protanomaly
45, 46.235, 100.581

Deuteranomaly
45, 43.610, 92.846

Tritanomaly
45, 16.525, 109.356

Monochromacy



Original Color
45, 47.288, 109.447

Achromatopsia
42, 0.006, 296.813

Achromatomaly
43, 19.626, 112.594

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 47.288, 109.447 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(102, 112, 23)` looks like.

```
.text, #text, p{  
    color:rgb(102, 112, 23)  
}
```

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(102, 112, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 112, 23) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 47.288, 109.447 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(102, 112, 23) }
```

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

```
.border{ border-color:rgb(102, 112, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 112, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 112, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 112, 23);  
box-shadow:4px 4px 4px 4px rgb(102, 112,  
23) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 47.288, 109.447 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 112, 23) }
```

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

```
.background{ background-color: rgb(102,  
112, 23) }
```

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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