

Converting Colors

CIELCh(45, 47.725, 99.775)

Have a look what the booklet for
CIELCh(45, 47.725, 99.775) contains.

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Color

CIELCh(45, 47.850, 99.870)

Conversions

Conversions Part 1

Format	Color
Hex	736D11
RGB	115, 109, 17
RGB Percent	45%, 43%, 7%
CMY	0.5502, 0.5736, 0.9348
CMYK	0.00, 0.05, 0.85, 0.55
HSL	56°, 75%, 26%
HSV	56°, 85%, 45%
XYZ	12.5679, 14.5417, 2.6598
YIQ	100.3060, 33.1080, -27.3400

Conversions

Conversions Part 2

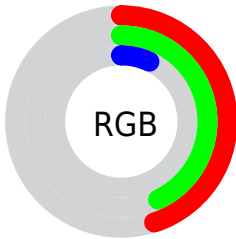
Format	Color
R _Y B	23, 115, 17
Decimal	7564561
CIE Lab	45.00, -8.20, 47.14
CIE LCh	45, 47.850, 99.870
Yxy	14.5417, 0.4222, 0.4885
Android (android.graphics.Color)	4285754641 (0xFF736D11)
YUV	100.3060, -41.0699, 12.8866
Hunter-Lab	38.1336, -7.9045, 22.5581

Details

The CIELCh color **45, 47.850, 99.870** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **15, 62.224, 302.552**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 47.902, 99.651**, and **25, 34.777, 101.251** is the 20% darker color. If you saturate the color by 10%, you get **45, 50.389, 99.269**, and if you desaturate by 10%, it is **45, 44.177, 100.580**.

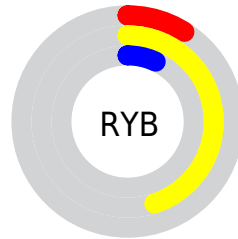
Distribution



Red (45%)

Green (43%)

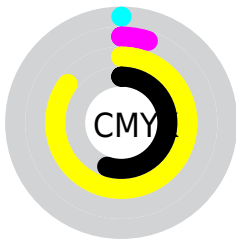
Blue (7%)



Red (9%)

Yellow (45%)

Blue (7%)

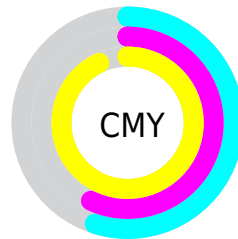


Cyan (0%)

Magenta (5%)

Yellow (85%)

Black (55%)



Cyan (55%)

Magenta (57%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 47.850, 99.870 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, 47.850, 99.870 by changing the saturation by 10% instead.

45, 47.850, 99.870

45, 47.850, 99.870

100, 47.850,
99.870

35, 47.850, 99.870

65, 47.850, 99.870

25, 47.850, 99.870

75, 47.850, 99.870

15, 47.850, 99.870

85, 47.850, 99.870

5, 47.850, 99.870

95, 47.850, 99.870

0, 47.850, 99.870

45, 47.850, 99.870

45, 47.850, 99.870

45, 50.389, 99.269

45, 44.177,
100.580

45, 51.504, 99.006

46, 39.512,

101.387

■ 46, 34.160,
102.270

■ 46, 28.370,
103.205

■ 47, 22.311,
104.171

■ 47, 16.098,
105.150

■ 48, 9.805, 106.127

■ 48, 3.476, 107.083

■ 49, 2.859, 288.067

Harmonies

Complementary

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



45, 47.850, 99.870



15, 62.224, 302.552

Rectangle

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



45, 47.850, 99.870



45, 47.850, 149.870



45, 47.850, 279.870



45, 47.850, 329.870

Sweetspot

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



45, 47.850, 99.872



60, 20.212, 105.037



24, 47.773, 30.309



30, 13.599, 104.783



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, 47.850, 99.872



57, 61.820, 98.904



44, 54.064, 124.137



23, 3.495, 106.755



47, 53.137, 98.987



91, 90.538, 98.753

Inverse Universe

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



15, 62.224, 302.552



17, 86.131, 305.334



18, 62.765, 310.942



21, 3.558, 288.542



13, 73.282, 305.070



32, 128.255, 305.754

Previews

White Background



This preview shows how the CIELCh color 45, 47.850, 99.870 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, 47.850, 99.870 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

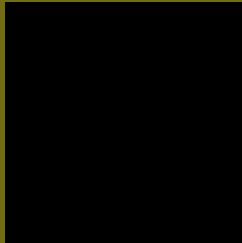
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 47.850, 99.870

Background



This preview shows how black text looks on a background with the CIELCh color 45, 47.850, 99.870.



This preview shows how white text looks on a background with the CIELCh color 45, 47.850, 99.870.

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, 47.850, 99.870

Protanopia

45, 47.766, 95.649

Deuteranopia

45, 46.411, 82.966



Tritanopia
45, 9.570, 350.873

Trichromacy



Original Color
45, 47.850, 99.870

Protanomaly
45, 47.942, 97.469

Deuteranomaly
45, 46.487, 89.357

Tritanomaly
45, 18.586, 85.925

Monochromacy



Original Color
45, 47.850, 99.870

Achromatopsia
42, 0.006, 296.813

Achromatomaly
43, 19.580, 104.594

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 47.850, 99.870 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(115, 109, 17)` looks like.

```
.text, #text, p{  
    color:rgb(115, 109, 17)  
}
```

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(115, 109, 17) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 109, 17) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 47.850, 99.870 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(115, 109, 17) }
```

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

```
.border{ border-color:rgb(115, 109, 17) }
```

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

Here you see how a box with a 4 pixel `rgb(115, 109, 17)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 109, 17); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 109, 17);  
box-shadow:4px 4px 4px 4px rgb(115, 109,  
17) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 47.850, 99.870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 109, 17) }
```

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

```
.background{ background-color: rgb(115,  
109, 17) }
```

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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