

Converting Colors

CIELCh(45, 47.350, 117.473)

Have a look what the booklet for
CIELCh(45, 47.350, 117.473)
contains.

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Color

CIELCh(45, 47.557, 117.487)

Conversions

Conversions Part 1

Format	Color
Hex	5B731D
RGB	91, 115, 29
RGB Percent	36%, 45%, 11%
CMY	0.6436, 0.5495, 0.8867
CMYK	0.21, 0.00, 0.75, 0.55
HSL	77°, 60%, 28%
HSV	77°, 75%, 45%
XYZ	10.6409, 14.5417, 3.4006
YIQ	98.0200, 13.3020, -31.8340

Conversions

Conversions Part 2

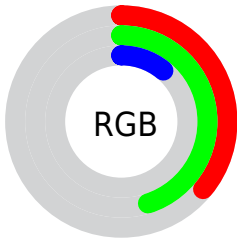
Format	Color
R _Y B	29, 115, 53
Decimal	5993245
CIE Lab	45.00, -21.95, 42.19
CIE LCh	45, 47.557, 117.487
Yxy	14.5417, 0.3723, 0.5087
Android (android.graphics.Color)	4284183325 (0xFF5B731D)
YUV	98.0200, -34.0269, -6.1565
Hunter-Lab	38.1336, -16.9247, 21.4062

Details

The CIELCh color $45, 47.557, 117.487$ is a dark color, and the websafe version is hex 666600 . A complement of this color would be $19, 56.863, 307.024$, and the grayscale version is $42, 0.006, 296.813$.

A 20% lighter version of the original color is $65, 47.665, 117.263$, and $25, 39.215, 121.665$ is the 20% darker color. If you saturate the color by 10%, you get $45, 51.701, 117.605$, and if you desaturate by 10%, it is $45, 42.442, 117.654$.

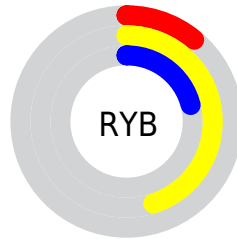
Distribution



Red (36%)

Green (45%)

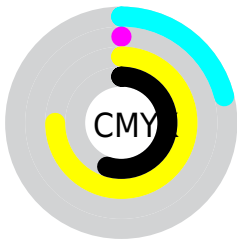
Blue (11%)



Red (11%)

Yellow (45%)

Blue (21%)

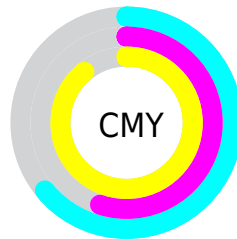


Cyan (21%)

Magenta (0%)

Yellow (75%)

Black (55%)



Cyan (64%)


Magenta (55%)


Yellow (89%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 47.557, 117.487 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, 47.557, 117.487 by changing the saturation by 10% instead.


 45, 47.557,
117.487


 45, 47.557,
117.487


 100, 47.557,
117.487

 35, 47.557,
117.487

 65, 47.557,
117.487


 25, 47.557,
117.487

 75, 47.557,
117.487

 15, 47.557,
117.487

 85, 47.557,
117.487

 5, 47.557, 117.487

 95, 47.557,
117.487

 0, 47.557, 117.487

 45, 47.557,

 45, 47.557,

117.487

117.487

■ 45, 51.701,
117.605

■ 45, 42.442,
117.654

■ 44, 54.721,
118.055

■ 46, 36.636,
118.011

■ 44, 56.202,
118.276

■ 46, 30.368,
118.486

■ 47, 23.807,
119.029

■ 47, 17.067,
119.601

■ 48, 10.228,
120.180

■ 48, 3.344, 120.753

■ 49, 3.548, 301.284

■ 49, 10.420,
301.810

Harmonies

Complementary

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



45, 47.557, 117.487



19, 56.863, 307.024

Rectangle

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



45, 47.557, 117.487



45, 47.557, 167.487



45, 47.557, 297.487



45, 47.557, 347.487

Sweetspot

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



45, 47.557, 117.489



61, 18.853, 119.733



30, 37.624, 46.212



32, 12.757, 119.613



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



45, 47.557, 117.489



58, 65.643, 117.934



43, 54.357, 133.914



24, 3.942, 120.513



47, 58.838, 118.367



91, 100.188, 119.112

Inverse Universe

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



19, 56.863, 307.024



21, 82.370, 308.007



25, 55.747, 320.316



22, 4.012, 301.537



14, 75.377, 308.380



34, 128.606, 307.907

Previews

White Background



This preview shows how the CIELCh color 45, 47.557, 117.487 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, 47.557, 117.487 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

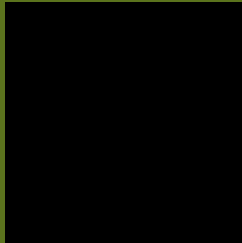
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 47.557, 117.487

Background



This preview shows how black text looks on a background with the CIELCh color 45, 47.557, 117.487.



This preview shows how white text looks on a background with the CIELCh color 45, 47.557, 117.487.

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, 47.557, 117.487

Protanopia
45, 43.969, 96.197

Deuteranopia
45, 41.077, 81.891



Tritanopia
45, 5.969, 263.711

Trichromacy



Original Color
45, 47.557, 117.487

Protanomaly
45, 44.370, 104.523

Deuteranomaly
45, 41.069, 96.049

Tritanomaly
45, 16.389, 128.047

Monochromacy



Original Color
45, 47.557, 117.487

Achromatopsia
42, 0.006, 296.813

Achromatomaly
42, 18.850, 119.788

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 47.557, 117.487 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(91, 115, 29)` looks like.

```
.text, #text, p{  
    color:rgb(91, 115, 29)  
}
```

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(91, 115, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(91, 115, 29) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 47.557, 117.487 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(91, 115, 29) }
```

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

```
.border{ border-color:rgb(91, 115, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(91, 115, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(91, 115, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(91, 115, 29);  
box-shadow:4px 4px 4px 4px rgb(91, 115,  
29) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 47.557, 117.487 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(91, 115, 29) }
```

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

```
.background{ background-color: rgb(91, 115,  
29) }
```

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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