

Converting Colors

CIELCh(45, 83.448, 300.303)

Have a look what the booklet for
CIELCh(45, 83.448, 300.303)
contains.

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Color

CIELCh(45, 83.432, 300.256)

Conversions

Conversions Part 1

Format	Color
Hex	5857E5
RGB	88, 87, 229
RGB Percent	35%, 34%, 90%
CMY	0.6550, 0.6589, 0.1021
CMYK	0.62, 0.62, 0.00, 0.10
HSL	240°, 73%, 62%
HSV	240°, 62%, 90%
XYZ	21.5674, 14.5417, 75.7795
YIQ	103.4870, -44.9860, 44.3740

Conversions

Conversions Part 2

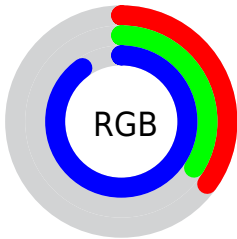
Format	Color
R _Y B	88, 87, 229
Decimal	5789669
CIE Lab	45.00, 42.04, -72.07
CIE LCh	45, 83.432, 300.256
Yxy	14.5417, 0.1928, 0.1300
Android (android.graphics.Color)	4283979749 (0xFF5857E5)
YUV	103.4870, 61.8779, -13.5821
Hunter-Lab	38.1336, 34.2212, -91.1283

Details

The CIELCh color **45, 83.432, 300.256** is a dark color, and the websafe version is hex **6666FF**. The color can be described as middle muted blue. A complement of this color would be **89, 69.063, 104.805**, and the grayscale version is **44, 0.006, 296.813**.

A 20% lighter version of the original color is **63, 66.024, 300.036**, and **25, 82.915, 300.913** is the 20% darker color. If you saturate the color by 10%, you get **39, 97.771, 302.435**, and if you desaturate by 10%, it is **52, 68.766, 298.113**.

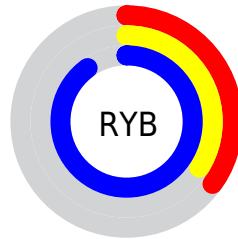
Distribution



Red (35%)

Green (34%)

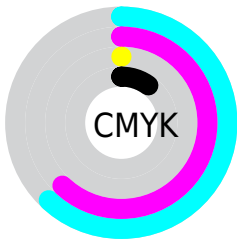
Blue (90%)



Red (35%)

Yellow (34%)

Blue (90%)

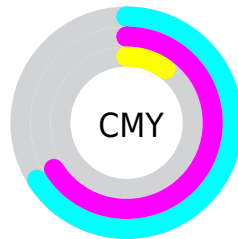


Cyan (62%)

Magenta (62%)

Yellow (0%)

Black (10%)



Cyan (66%)


Magenta (66%)


Yellow (10%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 45, 83.432, 300.256 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, 83.432, 300.256 by changing the saturation by 10% instead.


 45, 83.432,
300.256


 45, 83.432,
300.256


 100, 83.432,
300.256


 35, 83.432,
300.256

 65, 83.432,
300.256


 25, 83.432,
300.256

 75, 83.432,
300.256

 15, 83.432,
300.256

 85, 83.432,
300.256

 5, 83.432, 300.256

 95, 83.432,
300.256

 0, 83.432, 300.256

 45, 83.432,

 45, 83.432,

300.256

■ 39, 97.771,
302.435

■ 33, 110.431,
304.370

■ 30, 119.377,
305.715

■ 29, 123.323,
306.303

300.256

■ 52, 68.766,
298.113

■ 59, 54.405,
296.155

■ 67, 40.572,
294.438

■ 74, 27.311,
292.965

■ 82, 14.603,
291.715

■ 89, 2.408, 290.677

■ 97, 9.311, 109.742

■ 99, 13.171,
109.182

Harmonies

Complementary

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



45, 83.432, 300.256



89, 69.063, 104.805

Rectangle

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



45, 83.432, 300.256



45, 83.432, 350.256



45, 83.432, 120.256



45, 83.432, 170.256

Sweetspot

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



45, 83.432, 300.257



84, 25.567, 292.581



84, 39.109, 196.830



43, 17.702, 292.962



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



45, 83.432, 300.257



42, 109.634, 302.939



52, 82.542, 312.182



44, 6.881, 291.428



21, 102.355, 306.309



2, 33.689, 296.945

Inverse Universe

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



61, 84.715, 327.743



64, 103.896, 328.130



84, 75.115, 126.382



45, 8.266, 325.130



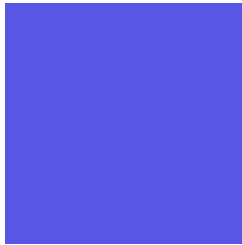
42, 87.943, 328.514



8, 36.935, 328.470

Previews

White Background



This preview shows how the CIELCh color 45, 83.432, 300.256 looks on a white background.

Color Contrast Check

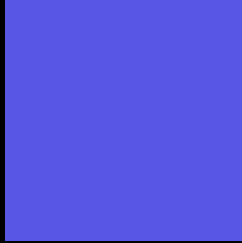
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 45, 83.432, 300.256 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

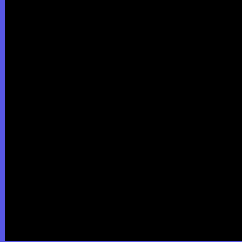
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 83.432, 300.256

Background



This preview shows how black text looks on a background with the CIELCh color 45, 83.432, 300.256.



This preview shows how white text looks on a background with the CIELCh color 45, 83.432, 300.256.

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, 83.432, 300.256

Protanopia

45, 68.040, 287.161

Deuteranopia

45, 47.838, 274.260



Tritanopia
45, 24.246, 209.908

Trichromacy



Original Color
45, 83.432, 300.256

Protanomaly
44, 73.695, 291.170

Deuteranomaly
44, 60.653, 285.968

Tritanomaly
44, 35.899, 272.404

Monochromacy



Original Color
45, 83.432, 300.256

Achromatopsia
44, 0.006, 296.813

Achromatomaly
43, 31.299, 295.115

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 83.432, 300.256 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(88, 87, 229)` looks like.

```
.text, #text, p{  
    color:rgb(88, 87, 229)  
}
```

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(88, 87, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 87, 229) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 83.432, 300.256 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(88, 87, 229) }
```

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

```
.border{ border-color:rgb(88, 87, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 87, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 87, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 87, 229);  
box-shadow:4px 4px 4px 4px rgb(88, 87,  
229) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 83.432, 300.256 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 87, 229) }
```

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

```
.background{ background-color: rgb(88, 87,  
229) }
```

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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