

Converting Colors

CIELCh(55, 80.504, 316.675)

Have a look what the booklet for
CIELCh(55, 80.504, 316.675)
contains.

CIELCh(55, 80.727, 316.650)	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(55, 80.727, 316.650)

Conversions

Conversions Part 1

Format	Color
Hex	B55BE5
RGB	181, 91, 229
RGB Percent	71%, 36%, 90%
CMY	0.2906, 0.6435, 0.1023
CMYK	0.21, 0.60, 0.00, 0.10
HSL	279°, 73%, 63%
HSV	279°, 60%, 90%
XYZ	36.8950, 22.9298, 76.5383
YIQ	133.6420, 9.3420, 61.9980

Conversions

Conversions Part 2

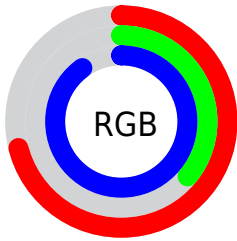
Format	Color
R _Y B	181, 91, 229
Decimal	11885541
CIE Lab	55.00, 58.70, -55.42
CIE LCh	55, 80.727, 316.650
Yxy	22.9298, 0.2706, 0.1682
Android (android.graphics.Color)	4290075621 (0xFFB55BE5)
YUV	133.6420, 47.0115, 41.5330
Hunter-Lab	47.8851, 53.7337, -61.2479

Details

The CIELCh color **55, 80.727, 316.650** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **83, 76.596, 131.322**, and the grayscale version is **56, 0.007, 296.813**.

A 20% lighter version of the original color is **74, 66.086, 322.652**, and **35, 80.962, 316.572** is the 20% darker color. If you saturate the color by 10%, you get **50, 92.098, 316.811**, and if you desaturate by 10%, it is **60, 68.011, 316.342**.

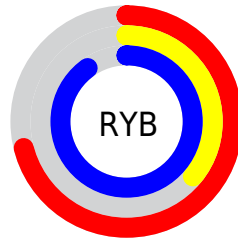
Distribution



Red (71%)

Green (36%)

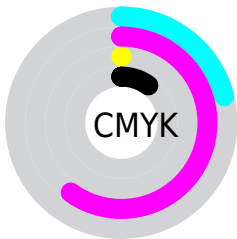
Blue (90%)



Red (71%)

Yellow (36%)

Blue (90%)

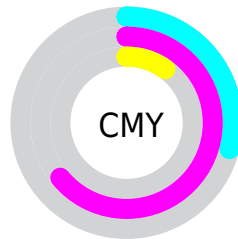


Cyan (21%)

Magenta (60%)

Yellow (0%)

Black (10%)



Cyan (29%)


Magenta (64%)


Yellow (10%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 55, 80.727, 316.650 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 55, 80.727, 316.650 by changing the saturation by 10% instead.


 55, 80.727,
316.650


 55, 80.727,
316.650


 100, 80.727,
316.650


 45, 80.727,
316.650


 75, 80.727,
316.650

 35, 80.727,
316.650

 85, 80.727,
316.650

 25, 80.727,
316.650

 95, 80.727,
316.650

 15, 80.727,
316.650

 5, 80.727, 316.650

 0, 80.727, 316.650

55, 80.727,
316.650

55, 80.727,
316.650

50, 92.098,
316.811

60, 68.011,
316.342

46, 101.379,
316.751

66, 54.570,
315.947

43, 107.860,
316.392

72, 40.848,
315.510

41, 111.486,
315.756

78, 27.135,
315.061

84, 13.612,
314.616

91, 0.381, 313.729

97, 12.504,
133.839

99, 13.779,
124.944

■ 99, 13.246,
113.000

Harmonies

Complementary

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



55, 80.727, 316.650



83, 76.596, 131.322

Rectangle

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



55, 80.727, 316.650



55, 80.727, 6.650



55, 80.727, 136.650



55, 80.727, 186.650

Sweetspot

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



55, 80.726, 316.650



88, 26.227, 314.963



58, 51.555, 282.035



45, 18.277, 315.094



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



55, 80.726, 316.650



55, 102.311, 316.820



60, 75.307, 332.619



45, 7.526, 314.579



32, 92.457, 315.923



5, 36.509, 316.445

Inverse Universe

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



58, 57.789, 1.534



60, 72.766, 5.037



81, 76.477, 143.100



45, 5.328, 353.563



38, 65.746, 16.526



7, 26.736, 5.688

Previews

White Background



This preview shows how the CIELCh color 55, 80.727, 316.650 looks on a white background.

Color Contrast Check

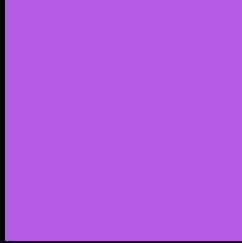
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

Black Background



This preview shows how the CIE LCh color 55, 80.727, 316.650 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

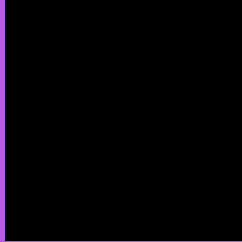
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 55, 80.727, 316.650

Background



This preview shows how black text looks on a background with the CIELCh color 55, 80.727, 316.650.

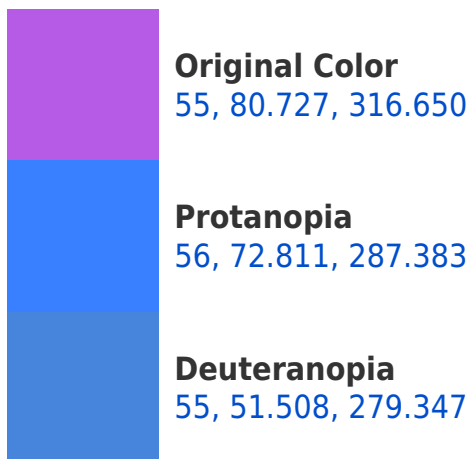


This preview shows how white text looks on a background with the CIELCh color 55, 80.727, 316.650.

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





Tritanopia
55, 19.506, 6.550

Trichromacy



Original Color
55, 80.727, 316.650



Protanomaly
54, 75.036, 295.951



Deuteranomaly
54, 60.929, 295.311



Tritanomaly
54, 39.049, 329.249

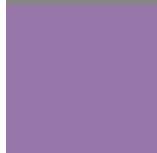
Monochromacy



Original Color
55, 80.727, 316.650



Achromatopsia
56, 0.007, 296.813



Achromatomaly
54, 31.757, 315.315

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 55, 80.727, 316.650 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(181, 91, 229)` looks like.

```
.text, #text, p{  
    color:rgb(181, 91, 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(181, 91, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 91, 229) }
```

Border

The CSS property to change the border of an element to CIELCh 55, 80.727, 316.650 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(181, 91, 229) }
```

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

```
.border{ border-color:rgb(181, 91, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(181, 91, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 91, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 91, 229);  
box-shadow:4px 4px 4px 4px rgb(181, 91,  
229) }
```

Background

The CSS property to change the background color of an element to CIELCh 55, 80.727, 316.650 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 91, 229) }
```

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

```
.background{ background-color: rgb(181, 91,  
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](#).

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