

Converting Colors

CIELCh(64, 80.845, 316.700)

Have a look what the booklet for
CIELCh(64, 80.845, 316.700)
contains.

CIELCh(64, 80.786, 316.663)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(64, 80.786, 316.663)

Conversions

Conversions Part 1

Format	Color
Hex	CF73FF
RGB	207, 115, 255
RGB Percent	81%, 45%, 100%
CMY	0.1877, 0.5485, 0.0000
CMYK	0.19, 0.55, 0.00, 0.00
HSL	279°, 100%, 73%
HSV	279°, 55%, 100%
XYZ	49.9845, 32.8017, 98.4149
YIQ	158.4680, 9.8920, 63.0440

Conversions

Conversions Part 2

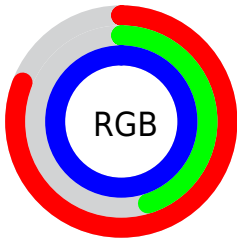
Format	Color
R_{YB}	207, 115, 255
Decimal	13595647
CIE _{Lab}	64.00, 58.76, -55.44
CIE _{LCh}	64, 80.786, 316.663
Yxy	32.8017, 0.2759, 0.1810
Android (android.graphics.Color)	4291785727 (0xFFCF73FF)
YUV	158.4680, 47.5903, 42.5626
Hunter-Lab	57.2727, 55.5577, -61.7904

Details

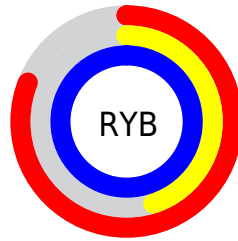
The CIELCh color `64, 80.786, 316.663` is a light color, and the websafe version is hex `CC66FF`. A complement of this color would be `92, 76.959, 131.695`, and the grayscale version is `65, 0.008, 296.813`.

A 20% lighter version of the original color is `80, 53.103, 326.256`, and `44, 80.975, 316.504` is the 20% darker color. If you saturate the color by 10%, you get `59, 93.947, 316.923`, and if you desaturate by 10%, it is `70, 66.379, 316.324`.

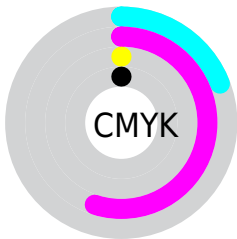
Distribution



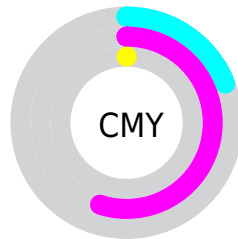
- Red (81%)
- Green (45%)
- Blue (100%)



- Red (81%)
- Yellow (45%)
- Blue (100%)



- Cyan (19%)
- Magenta (55%)
- Yellow (0%)
- Black (0%)





- Cyan (19%)
- Magenta (55%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 64, 80.786, 316.663 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 64, 80.786, 316.663 by changing the saturation by 10% instead.

 64, 80.786,
316.663

 64, 80.786,
316.663


 100, 80.786,
316.663


 54, 80.786,
316.663


 84, 80.786,
316.663

 44, 80.786,
316.663

 94, 80.786,
316.663

 34, 80.786,
316.663

 24, 80.786,
316.663

 14, 80.786,
316.663

 4, 80.786, 316.663

 0, 80.786, 316.663

64, 80.786,
316.663

64, 80.786,
316.663

59, 93.947,
316.923

70, 66.379,
316.324

54, 105.286,
316.981

76, 51.502,
315.902

50, 113.908,
316.777

83, 36.490,
315.455

47, 119.201,
316.242

90, 21.599,
315.005

46, 120.880,
315.864

97, 6.981, 314.555

100, 0.012,
296.813

Harmonies

Complementary

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



64, 80.786, 316.663



92, 76.959, 131.695

Rectangle

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



64, 80.786, 316.663



64, 80.786, 6.663



64, 80.786, 136.663



64, 80.786, 186.663

Sweetspot

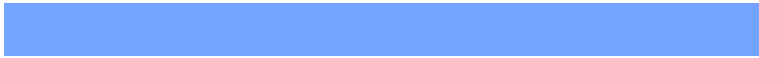
The Sweet Spot groups the original color and five complimentary colors.



64, 80.722, 316.681



89, 23.295, 315.056



68, 50.976, 280.516



46, 15.761, 315.148



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



64, 80.722, 316.681



58, 95.358, 316.941



69, 76.078, 332.291



49, 8.219, 314.767



34, 97.247, 316.042



8, 44.375, 317.302

Inverse Universe

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



67, 57.781, 0.749



62, 67.996, 3.607



90, 76.806, 143.788



50, 5.792, 353.948



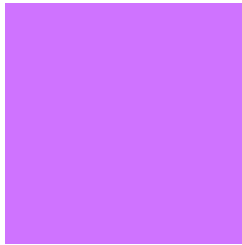
40, 69.422, 17.360



10, 31.325, 9.616

Previews

White Background



This preview shows how the CIELCh color 64, 80.786, 316.663 looks on a white background.

Color Contrast Check

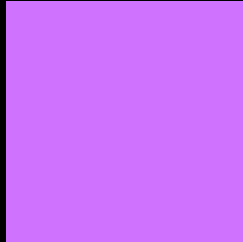
Large Text (above 18pt) WCAG AA × Fail

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 64, 80.786, 316.663 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

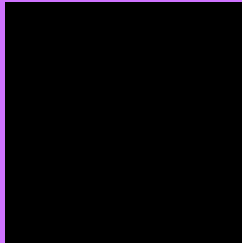
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

CIELCh 64, 80.786, 316.663

Background



This preview shows how black text looks on a background with the CIELCh color 64, 80.786, 316.663.

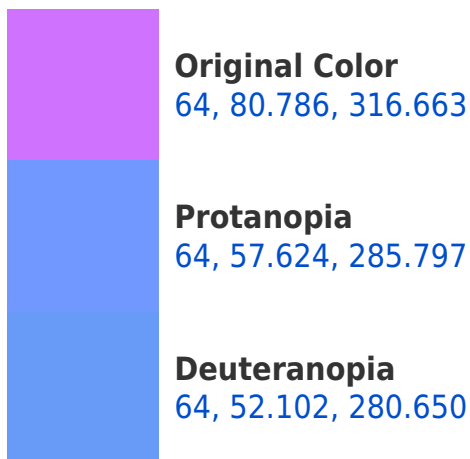


This preview shows how white text looks on a background with the CIELCh color 64, 80.786, 316.663.

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
64, 20.285, 4.131

Trichromacy



Original Color
64, 80.786, 316.663



Protanomaly
63, 64.785, 298.535



Deuteranomaly
63, 61.471, 296.621



Tritanomaly
63, 39.666, 329.432

Monochromacy



Original Color
64, 80.786, 316.663



Achromatopsia
65, 0.008, 296.813



Achromatomaly
64, 30.997, 315.785

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 64, 80.786, 316.663 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(207, 115, 255)` looks like.

```
.text, #text, p{  
    color:rgb(207, 115, 255)  
}
```

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(207, 115, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(207, 115, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 64, 80.786, 316.663 is called "border". The border property can be set on classes, ids or directly on the HTML element.

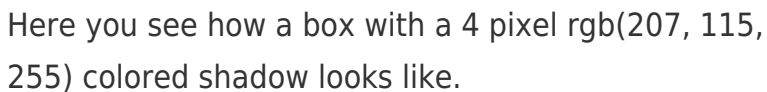
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(207, 115, 255) }
```

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

```
.border{ border-color:rgb(207, 115, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(207, 115, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(207, 115, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(207, 115, 255);  
box-shadow:4px 4px 4px 4px rgb(207, 115,  
255) }
```

Background

The CSS property to change the background color of an element to CIELCh 64, 80.786, 316.663 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(207, 115, 255) }
```

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

```
.background{ background-color: rgb(207,  
115, 255) }
```

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