

# Converting Colors

CIELCh(67, 70.945, 313.760)

Have a look what the booklet for  
CIELCh(67, 70.945, 313.760)  
contains.

<b>CIELCh(67, 70.687, 313.940)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

**Color**

**CIELCh(67, 70.687, 313.940)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CB84FF
RGB	203, 132, 255
RGB Percent	80%, 52%, 100%
CMY	0.2021, 0.4807, 0.0000
CMYK	0.20, 0.48, 0.00, 0.00
HSL	275°, 100%, 76%
HSV	275°, 48%, 100%
XYZ	51.1916, 36.6320, 99.3789
YIQ	167.2510, 2.8330, 53.3050

# Conversions

## Conversions Part 2

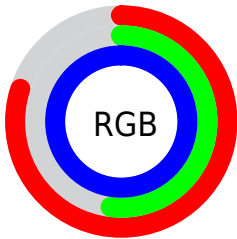
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	203, 132, 255
Decimal	13337855
CIE <sub>Lab</sub>	67.00, 49.05, -50.90
CIE <sub>LCh</sub>	67, 70.687, 313.940
Yxy	36.6320, 0.2735, 0.1957
Android (android.graphics.Color)	4291527935 (0xFFCB84FF)
YUV	167.2510, 43.2603, 31.3519
Hunter-Lab	60.5244, 45.0581, -54.9851

# Details

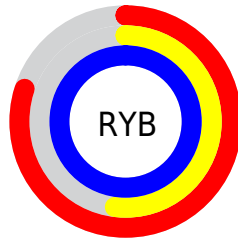
The CIELCh color  $67, 70.687, 313.940$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $93, 66.563, 129.545$ , and the grayscale version is  $69, 0.009, 296.813$ .

A 20% lighter version of the original color is  $84, 42.626, 325.902$ , and  $47, 70.749, 313.812$  is the 20% darker color. If you saturate the color by 10%, you get  $61, 84.765, 314.397$ , and if you desaturate by 10%, it is  $74, 55.624, 313.546$ .

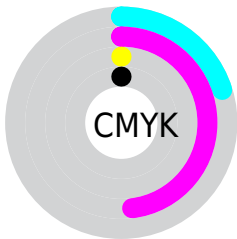
# Distribution



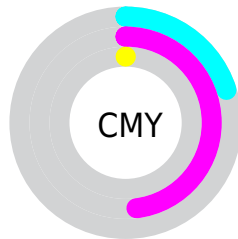
- Red (80%)
- Green (52%)
- Blue (100%)



- Red (80%)
- Yellow (52%)
- Blue (100%)



- Cyan (20%)
- Magenta (48%)
- Yellow (0%)
- Black (0%)




- Cyan (20%)
- Magenta (48%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 67, 70.687, 313.940 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 67, 70.687, 313.940 by changing the saturation by 10% instead.





 67, 70.687,  
313.940


 67, 70.687,  
313.940


 100, 70.687,  
313.940


 57, 70.687,  
313.940


 87, 70.687,  
313.940

 47, 70.687,  
313.940

 97, 70.687,  
313.940

 37, 70.687,  
313.940

 27, 70.687,  
313.940

 17, 70.687,  
313.940

 7, 70.687, 313.940

 0, 70.687, 313.940

67, 70.687,  
313.940

67, 70.687,  
313.940

61, 84.765,  
314.397

74, 55.624,  
313.546

55, 97.928,  
314.657

80, 40.691,  
313.064

50, 109.098,  
314.702

87, 25.909,  
312.587

47, 117.356,  
314.432

94, 11.424,  
312.126

44, 122.163,  
313.781

100, 0.012,  
296.813

44, 122.890,  
313.639

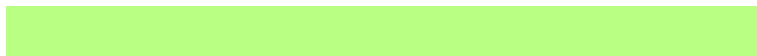
# Harmonies

# Complementary

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



67, 70.687, 313.940



93, 66.563, 129.545

# Rectangle

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



67, 70.687, 313.940



67, 70.687, 3.940



67, 70.687, 133.940



67, 70.687, 183.940

# Sweetspot

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



67, 70.454, 314.005



90, 19.979, 312.398



74, 39.674, 271.427



47, 13.830, 312.498



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



67, 70.454, 314.005



61, 84.675, 314.395



73, 71.734, 328.998



49, 8.068, 312.192



32, 98.827, 313.831



7, 44.738, 315.093





# Inverse Universe

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



70, 52.406, 353.912



65, 62.245, 355.810



91, 72.134, 142.246



50, 6.063, 348.983



41, 68.122, 9.820

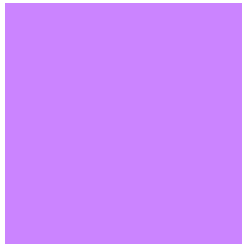


10, 31.354, 3.059



# Previews

## White Background



This preview shows how the CIELCh color 67, 70.687, 313.940 looks on a white background.

## Color Contrast Check

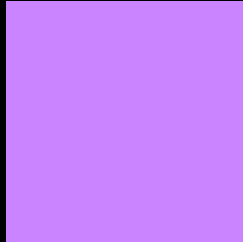
Large Text (above 18pt) WCAG AA × Fail

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 67, 70.687, 313.940 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

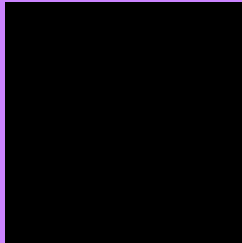
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 67, 70.687, 313.940

## Background



This preview shows how black text looks on a background with the CIELCh color 67, 70.687, 313.940.

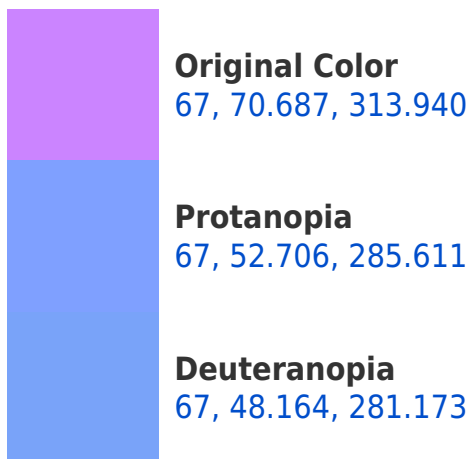


This preview shows how white text looks on a background with the CIELCh color 67, 70.687, 313.940.

# 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**  
67, 14.818, 356.800



# Trichromacy



**Original Color**  
67, 70.687, 313.940



**Protanomaly**  
67, 58.116, 297.208



**Deuteranomaly**  
67, 54.746, 295.228



**Tritanomaly**  
67, 33.485, 323.651

# Monochromacy



**Original Color**  
67, 70.687, 313.940



**Achromatopsia**  
69, 0.009, 296.813



**Achromatomaly**  
68, 26.610, 312.723

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 67, 70.687, 313.940 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(203, 132, 255)` looks like.

```
.text, #text, p{  
    color:rgb(203, 132, 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(203, 132, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 132, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 67, 70.687, 313.940 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(203, 132, 255) }
```

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

```
.border{ border-color:rgb(203, 132, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 132, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 132, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 132, 255);  
box-shadow:4px 4px 4px 4px rgb(203, 132,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 67, 70.687, 313.940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 132, 255) }
```

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

```
.background{ background-color: rgb(203,  
132, 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](#).

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