

# Converting Colors

CIELCh(72, 114.641, 304.623)

Have a look what the booklet for  
CIELCh(72, 114.641, 304.623)  
contains.

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**Color**

**CIELCh(66, 65.503, 307.912)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B78AFE
RGB	183, 138, 254
RGB Percent	72%, 54%, 100%
CMY	0.2832, 0.4593, 0.0049
CMYK	0.28, 0.46, 0.00, 0.00
HSL	263°, 98%, 77%
HSV	263°, 46%, 100%
XYZ	46.3995, 35.3238, 97.9344
YIQ	164.6790, -10.4160, 45.6160

# Conversions

## Conversions Part 2

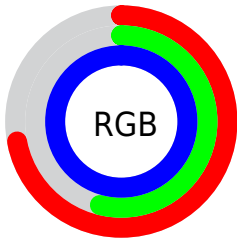
Format	Color
R <sub>Y</sub> B	183, 138, 254
Decimal	12028670
CIE Lab	66.00, 40.25, -51.68
CIE LCh	66, 65.503, 307.912
Yxy	35.3238, 0.2583, 0.1966
Android (android.graphics.Color)	4290218750 (0xFFB78AFE)
YUV	164.6790, 44.0353, 16.0675
Hunter-Lab	59.4338, 35.3443, -56.0937

# Details

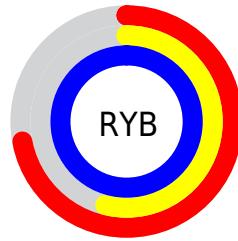
The CIELCh color  $66, 65.503, 307.912$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $94, 60.061, 122.712$ , and the grayscale version is  $67, 0.008, 296.813$ .

A 20% lighter version of the original color is  $84, 37.271, 319.232$ , and  $46, 65.650, 307.903$  is the 20% darker color. If you saturate the color by 10%, you get  $59, 80.448, 308.633$ , and if you desaturate by 10%, it is  $73, 50.544, 307.194$ .

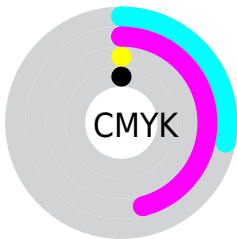
# Distribution



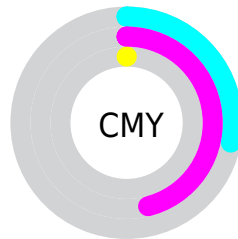
- Red (72%)
- Green (54%)
- Blue (100%)



- Red (72%)
- Yellow (54%)
- Blue (100%)



- Cyan (28%)
- Magenta (46%)
- Yellow (0%)
- Black (0%)




- Cyan (28%)
- Magenta (46%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 66, 65.503, 307.912 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 66, 65.503, 307.912 by changing the saturation by 10% instead.





 66, 65.503,  
307.912


 66, 65.503,  
307.912


 100, 65.503,  
307.912


 56, 65.503,  
307.912


 86, 65.503,  
307.912

 46, 65.503,  
307.912

 96, 65.503,  
307.912

 36, 65.503,  
307.912

 26, 65.503,  
307.912

 16, 65.503,  
307.912

 6, 65.503, 307.912

 0, 65.503, 307.912

66, 65.503,  
307.912

66, 65.503,  
307.912

59, 80.448,  
308.633

73, 50.544,  
307.194

53, 94.890,  
309.289

81, 35.843,  
306.514

47, 108.002,  
309.778

88, 21.531,  
305.890

42, 118.617,  
309.954

95, 7.663, 305.323

39, 125.534,  
309.667

100, 0.619,  
110.007

37, 127.587,  
309.445

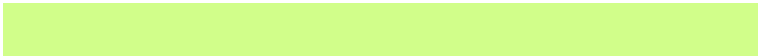
# Harmonies

# Complementary

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



66, 65.503, 307.912



94, 60.061, 122.712

# Rectangle

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



66, 65.503, 307.912



66, 65.503, 357.912



66, 65.503, 127.912



66, 65.503, 177.912

# Sweetspot

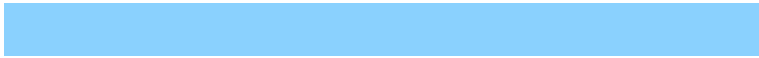
The Sweet Spot groups the original color and five complimentary colors.



66, 65.502, 307.912



90, 19.269, 305.792



81, 30.682, 249.237



46, 13.349, 305.919



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



66, 65.502, 307.912



60, 79.781, 308.587



72, 69.728, 323.352



49, 7.768, 305.535



27, 102.931, 309.623



5, 44.884, 309.869





# Inverse Universe

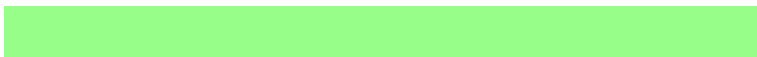
The Inverse Universe completely reimagines the original color for something new.



72, 55.150, 342.119



68, 65.403, 343.243



91, 69.180, 138.222



50, 6.897, 338.735



42, 70.760, 351.911

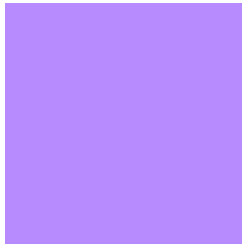


11, 33.353, 348.080



# Previews

## White Background



This preview shows how the CIELCh color 66, 65.503, 307.912 looks on a white background.

## Color Contrast Check

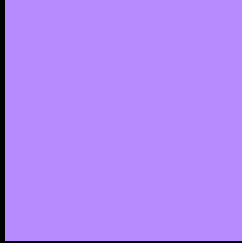
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 66, 65.503, 307.912 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

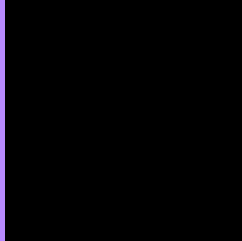
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 66, 65.503, 307.912

## Background



This preview shows how black text looks on a background with the CIELCh color 66, 65.503, 307.912.



This preview shows how white text looks on a background with the CIELCh color 66, 65.503, 307.912.

# 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


66, 65.563, 307.924

### Protanopia

66, 54.494, 286.027

### Deuteranopia

66, 50.043, 281.017



**Tritanopia**  
66, 8.170, 318.185



# Trichromacy



**Original Color**  
66, 65.563, 307.924



**Protanomaly**  
66, 58.131, 294.515



**Deuteranomaly**  
66, 54.842, 291.831



**Tritanomaly**  
66, 29.042, 308.910

# Monochromacy



**Original Color**  
66, 65.563, 307.924



**Achromatopsia**  
68, 0.008, 296.813



**Achromatomaly**  
67, 24.045, 305.987

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 65.503, 307.912 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(183, 138, 254)` looks like.

```
.text, #text, p{  
    color:rgb(183, 138, 254)  
}
```

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(183, 138, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 138, 254) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 65.503, 307.912 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(183, 138, 254) }
```

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

```
.border{ border-color:rgb(183, 138, 254) }
```

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

Here you see how a box with a 4 pixel `rgb(183, 138, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(183, 138, 254); -webkit-box-shadow:4px 4px 4px 4px rgb(183, 138, 254); box-shadow:4px 4px 4px 4px rgb(183, 138, 254) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 65.503, 307.912 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(183, 138, 254) }
```

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

```
.background{ background-color: rgb(183,  
138, 254) }
```

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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