

# Converting Colors

CIELCh(58, 80.603, 305.253)

Have a look what the booklet for  
CIELCh(58, 80.603, 305.253)  
contains.

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**Color**

**CIELCh(58, 80.082, 305.318)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9872FF
RGB	152, 114, 255
RGB Percent	60%, 45%, 100%
CMY	0.4036, 0.5526, 0.0000
CMYK	0.40, 0.55, 0.00, 0.00
HSL	256°, 100%, 72%
HSV	256°, 55%, 100%
XYZ	37.0546, 25.9610, 97.7387
YIQ	141.4360, -22.6130, 51.9070

# Conversions

## Conversions Part 2

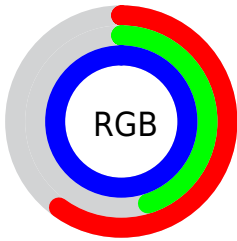
Format	Color
R <sub>Y</sub> B	152, 114, 255
Decimal	9990911
CIE <sub>Lab</sub>	58.00, 46.30, -65.34
CIE <sub>LCh</sub>	58, 80.082, 305.318
Yxy	25.9610, 0.2305, 0.1615
Android (android.graphics.Color)	4288180991 (0xFF9872FF)
YUV	141.4360, 55.9871, 9.2646
Hunter-Lab	50.9519, 40.6476, -78.0669

# Details

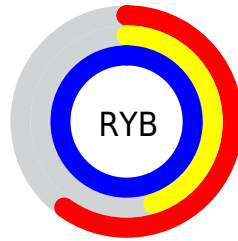
The CIELCh color **58, 80.082, 305.318** is a light color, and the websafe version is hex **9966FF**. A complement of this color would be **95, 70.086, 117.448**, and the grayscale version is **59, 0.008, 296.813**.

A 20% lighter version of the original color is **75, 49.714, 310.793**, and **38, 80.004, 305.299** is the 20% darker color. If you saturate the color by 10%, you get **51, 95.112, 306.339**, and if you desaturate by 10%, it is **65, 64.726, 304.295**.

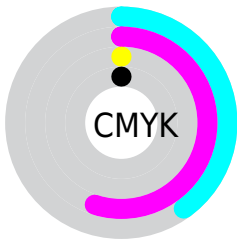
# Distribution



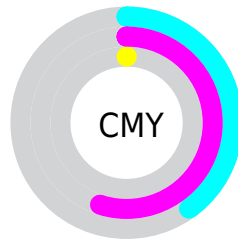
- Red (60%)
- Green (45%)
- Blue (100%)



- Red (60%)
- Yellow (45%)
- Blue (100%)



- Cyan (40%)
- Magenta (55%)
- Yellow (0%)
- Black (0%)




- Cyan (40%)
- Magenta (55%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 58, 80.082, 305.318 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 58, 80.082, 305.318 by changing the saturation by 10% instead.





 58, 80.082,  
305.318


 58, 80.082,  
305.318


 100, 80.082,  
305.318


 48, 80.082,  
305.318


 78, 80.082,  
305.318

 38, 80.082,  
305.318

 88, 80.082,  
305.318

 28, 80.082,  
305.318

 98, 80.082,  
305.318

 18, 80.082,  
305.318

 8, 80.082, 305.318

 0, 80.082, 305.318

58, 80.082,  
305.318

58, 80.082,  
305.318

51, 95.112,  
306.339

65, 64.726,  
304.295

45, 109.124,  
307.229

73, 49.622,  
303.327

40, 120.744,  
307.811

81, 34.927,  
302.448

36, 128.423,  
307.889

88, 20.721,  
301.665

35, 130.799,  
307.792

96, 7.021, 300.976

100, 0.012,  
296.813

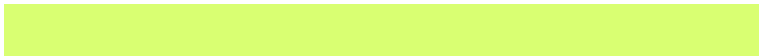
# Harmonies

# Complementary

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



58, 80.082, 305.318



95, 70.086, 117.448

# Rectangle

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



58, 80.082, 305.318



58, 80.082, 355.318



58, 80.082, 125.318



58, 80.082, 175.318

# Sweetspot

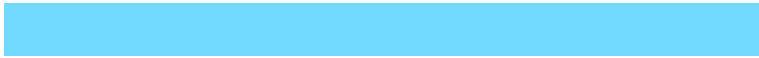
The Sweet Spot groups the original color and five complimentary colors.



58, 80.036, 305.321



87, 23.151, 301.794



82, 33.871, 234.209



45, 15.542, 301.947



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



58, 80.036, 305.321



51, 96.194, 306.411



66, 82.107, 320.066



49, 7.639, 301.258



25, 105.144, 307.934



4, 44.696, 307.014





# Inverse Universe

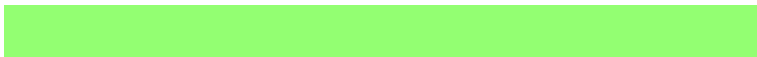
The Inverse Universe completely reimagines the original color for something new.



68, 70.700, 337.331



64, 81.046, 338.389



91, 80.012, 134.671



50, 7.501, 333.695



43, 75.811, 342.757

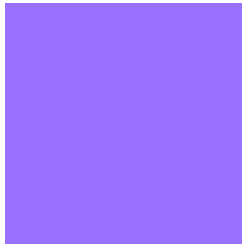


11, 35.673, 340.553



# Previews

## White Background



This preview shows how the CIELCh color 58, 80.082, 305.318 looks on a white background.

## Color Contrast Check

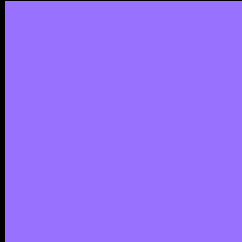
Large Text (above 18pt) WCAG AA ✓ Pass

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 58, 80.082, 305.318 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

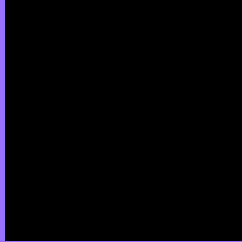
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 58, 80.082, 305.318

## Background



This preview shows how black text looks on a background with the CIELCh color 58, 80.082, 305.318.



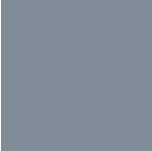
This preview shows how white text looks on a background with the CIELCh color 58, 80.082, 305.318.

# 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**  
58, 7.783, 252.839



# Trichromacy



**Original Color**  
58, 80.082, 305.318

**Protanomaly**  
57, 72.493, 293.776

**Deuteranomaly**  
57, 68.525, 287.584

**Tritanomaly**  
57, 33.224, 297.324

# Monochromacy



**Original Color**  
58, 80.082, 305.318

**Achromatopsia**  
59, 0.008, 296.813

**Achromatomaly**  
58, 29.550, 302.782

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 80.082, 305.318 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(152, 114, 255)` looks like.

```
.text, #text, p{  
    color:rgb(152, 114, 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(152, 114, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(152, 114, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 80.082, 305.318 is called "border". The border property can be set on classes, ids or directly on the HTML element.

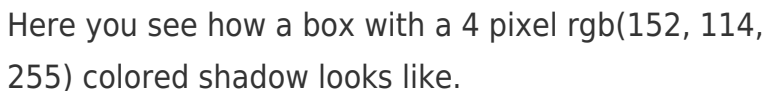
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(152, 114, 255) }
```

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

```
.border{ border-color:rgb(152, 114, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(152, 114, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(152, 114, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(152, 114, 255); box-shadow:4px 4px 4px 4px rgb(152, 114, 255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 80.082, 305.318 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(152, 114, 255) }
```

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

```
.background{ background-color: rgb(152,  
114, 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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