

# Converting Colors

CIELCh(52, 104.570, 313.780)

Have a look what the booklet for  
CIELCh(52, 104.570, 313.780)  
contains.

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**Color**

**CIELCh(52, 103.866, 313.837)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AB45FF
RGB	171, 69, 255
RGB Percent	67%, 27%, 100%
CMY	0.3293, 0.7293, 0.0000
CMYK	0.33, 0.73, 0.00, 0.00
HSL	273°, 100%, 64%
HSV	273°, 73%, 100%
XYZ	36.9877, 20.1443, 96.5757
YIQ	120.7020, 1.0860, 79.4700

# Conversions

## Conversions Part 2

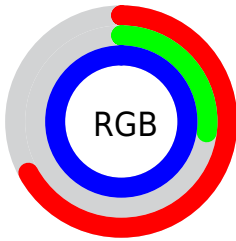
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	171, 69, 255
Decimal	11224575
CIE <sub>Lab</sub>	52.00, 71.94, -74.92
CIE <sub>LCh</sub>	52, 103.866, 313.837
Yxy	20.1443, 0.2406, 0.1311
Android (android.graphics.Color)	4289414655 (0xFFAB45FF)
YUV	120.7020, 66.2089, 44.1113
Hunter-Lab	44.8824, 68.5578, -96.1594

# Details

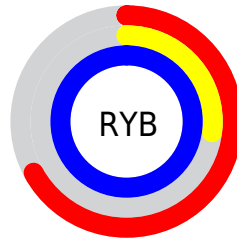
The CIELCh color **52, 103.866, 313.837** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **91, 94.494, 127.959**, and the grayscale version is **50, 0.007, 296.813**.

A 20% lighter version of the original color is **69, 76.161, 321.394**, and **33, 101.402, 313.388** is the 20% darker color. If you saturate the color by 10%, you get **48, 113.977, 313.780**, and if you desaturate by 10%, it is **57, 91.322, 313.632**.

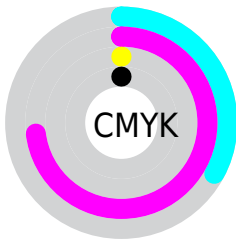
# Distribution



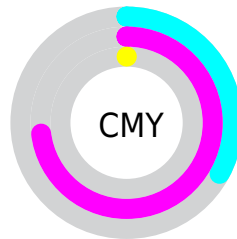
- Red (67%)
- Green (27%)
- Blue (100%)



- Red (67%)
- Yellow (27%)
- Blue (100%)



- Cyan (33%)
- Magenta (73%)
- Yellow (0%)
- Black (0%)




- Cyan (33%)
- Magenta (73%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 52, 103.866, 313.837 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 52, 103.866, 313.837 by changing the saturation by 10% instead.





 52, 103.866,  
313.837


 52, 103.866,  
313.837


 100, 103.866,  
313.837


 42, 103.866,  
313.837


 72, 103.866,  
313.837


 32, 103.866,  
313.837


 82, 103.866,  
313.837

 22, 103.866,  
313.837

 92, 103.866,  
313.837

 12, 103.866,  
313.837

 2, 103.866,  
313.837

 0, 103.866,  
313.837

52, 103.866,  
313.837

52, 103.866,  
313.837

48, 113.977,  
313.780

57, 91.322,  
313.632

44, 120.804,  
313.349

63, 77.336,  
313.257

42, 123.726,  
312.835

70, 62.630,  
312.791

77, 47.704,  
312.290

84, 32.868,  
311.788

91, 18.300,  
311.306

98, 4.094, 310.829

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.



52, 103.866, 313.837



91, 94.494, 127.959

# Rectangle

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



52, 103.866, 313.837



52, 103.866, 3.837



52, 103.866, 133.837



52, 103.866, 183.837

# Sweetspot

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



52, 103.849, 313.840



84, 31.504, 311.743



64, 57.110, 276.471



43, 21.235, 311.877



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



52, 103.849, 313.840



46, 117.894, 313.613



64, 101.196, 328.987



49, 8.012, 311.146



31, 99.486, 313.030



7, 44.823, 314.222



# Inverse Universe

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



60, 74.929, 357.194



56, 82.067, 2.296



89, 103.938, 138.385



50, 6.183, 347.140



41, 67.998, 6.791

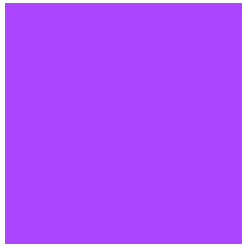


10, 31.497, 0.461



# Previews

## White Background



This preview shows how the CIELCh color 52, 103.866, 313.837 looks on a white background.

## Color Contrast Check

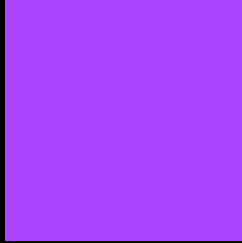
Large Text (above 18pt) WCAG AA ✓ Pass

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 52, 103.866, 313.837 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

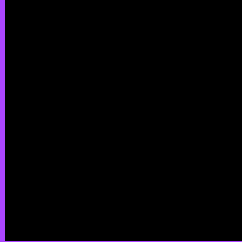
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 52, 103.866, 313.837**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 52, 103.866, 313.837.



This preview shows how white text looks on a background with the CIELCh color 52, 103.866, 313.837.

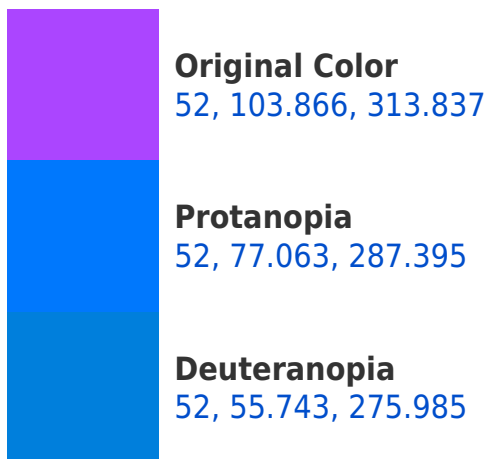





# Color Blindness Simulation

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**  
52, 14.059, 359.449

# Trichromacy



**Original Color**  
52, 103.866, 313.837



**Protanomaly**  
49, 88.736, 295.881



**Deuteranomaly**  
49, 74.199, 292.289



**Tritanomaly**  
50, 47.208, 320.150

# Monochromacy



**Original Color**  
52, 103.866, 313.837



**Achromatopsia**  
51, 0.007, 296.813



**Achromatomaly**  
49, 41.858, 312.455

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 52, 103.866, 313.837 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(171, 69, 255)` looks like.

```
.text, #text, p{  
    color:rgb(171, 69, 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(171, 69, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 69, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 52, 103.866, 313.837 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(171, 69, 255) }
```

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

```
.border{ border-color:rgb(171, 69, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 69, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 69, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 69, 255);  
box-shadow:4px 4px 4px 4px rgb(171, 69,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 52, 103.866, 313.837 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 69, 255) }
```

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

```
.background{ background-color: rgb(171, 69,  
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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