

# Converting Colors

CIELCh(53, 63.243, 312.857)

Have a look what the booklet for  
CIELCh(53, 63.243, 312.857)  
contains.

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**Color**

**CIELCh(53, 63.137, 312.823)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9E65CF
RGB	158, 101, 207
RGB Percent	62%, 40%, 81%
CMY	0.3808, 0.6043, 0.1887
CMYK	0.24, 0.51, 0.00, 0.19
HSL	272°, 52%, 60%
HSV	272°, 51%, 81%
XYZ	29.9730, 21.0462, 61.4444
YIQ	130.1270, -0.0540, 45.0500

# Conversions

## Conversions Part 2

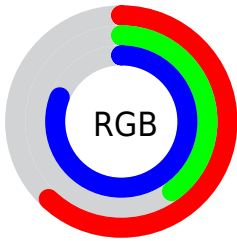
Format	Color
R <sub>Y</sub> B	158, 101, 207
Decimal	10380751
CIE Lab	53.00, 42.92, -46.31
CIE LCh	53, 63.137, 312.823
Yxy	21.0462, 0.2665, 0.1871
Android (android.graphics.Color)	4288570831 (0xFF9E65CF)
YUV	130.1270, 37.8984, 24.4446
Hunter-Lab	45.8761, 36.3391, -47.2970

# Details

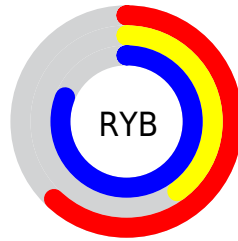
The CIELCh color **53, 63.137, 312.823** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **77, 58.965, 128.033**, and the grayscale version is **54, 0.007, 296.813**.

A 20% lighter version of the original color is **73, 58.131, 314.397**, and **33, 63.207, 312.702** is the 20% darker color. If you saturate the color by 10%, you get **48, 75.168, 313.236**, and if you desaturate by 10%, it is **59, 50.638, 312.339**.

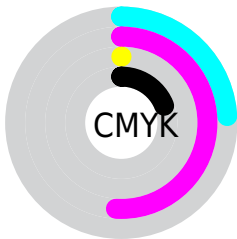
# Distribution



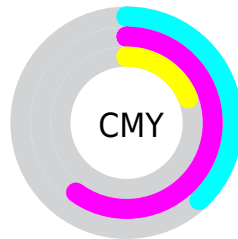
- Red (62%)
- Green (40%)
- Blue (81%)



- Red (62%)
- Yellow (40%)
- Blue (81%)



- Cyan (24%)
- Magenta (51%)
- Yellow (0%)
- Black (19%)




- Cyan (38%)
- Magenta (60%)
- Yellow (19%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 53, 63.137, 312.823 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 53, 63.137, 312.823 by changing the saturation by 10% instead.





 53, 63.137,  
312.823


 53, 63.137,  
312.823


 100, 63.137,  
312.823


 43, 63.137,  
312.823


 73, 63.137,  
312.823

 33, 63.137,  
312.823

 83, 63.137,  
312.823

 23, 63.137,  
312.823

 93, 63.137,  
312.823

 13, 63.137,  
312.823

 3, 63.137, 312.823

 0, 63.137, 312.823

53, 63.137,  
312.823

53, 63.137,  
312.823

48, 75.168,  
313.236

59, 50.638,  
312.339

43, 86.175,  
313.507

64, 38.042,  
311.832

39, 95.409,  
313.542

70, 25.571,  
311.332

36, 102.066,  
313.237

76, 13.352,  
310.855

34, 105.805,  
312.704

82, 1.449, 310.335

88, 10.110,  
130.043

94, 21.316,  
129.680

97, 25.554,  
125.596

■ 98, 24.676,  
117.880

# Harmonies

# Complementary

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



53, 63.137, 312.823



77, 58.965, 128.033

# Rectangle

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



53, 63.137, 312.823



53, 63.137, 2.823



53, 63.137, 132.823



53, 63.137, 182.823

# Sweetspot

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



53, 63.136, 312.823



89, 21.245, 311.040



61, 34.120, 268.830



46, 14.535, 311.142



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



53, 63.136, 312.823



58, 88.694, 313.254



59, 65.590, 328.082



41, 6.789, 310.771



27, 90.610, 312.868



3, 26.970, 308.960



# Inverse Universe

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



57, 47.879, 351.591



64, 66.000, 353.530



75, 66.034, 141.067



41, 5.288, 346.498



36, 61.865, 5.264

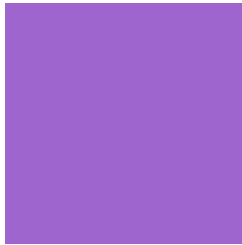


5, 21.461, 356.345



# Previews

## White Background



This preview shows how the CIELCh color 53, 63.137, 312.823 looks on a white background.

## Color Contrast Check

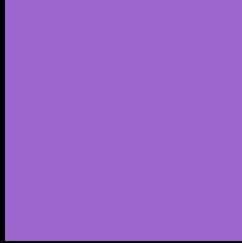
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 53, 63.137, 312.823 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

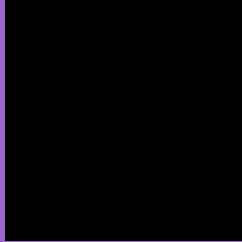
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 53, 63.137, 312.823

## Background



This preview shows how black text looks on a background with the CIELCh color 53, 63.137, 312.823.

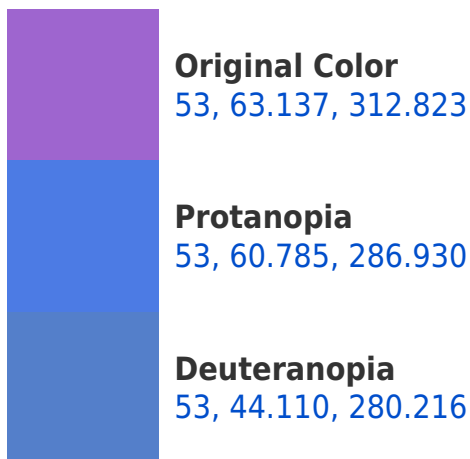


This preview shows how white text looks on a background with the CIELCh color 53, 63.137, 312.823.


# 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**  
53, 11.340, 353.542

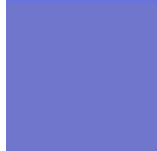
# Trichromacy



**Original Color**  
53, 63.137, 312.823



**Protanomaly**  
52, 60.630, 294.917



**Deuteranomaly**  
53, 49.729, 293.690



**Tritanomaly**  
53, 28.965, 321.270

# Monochromacy



**Original Color**  
53, 63.137, 312.823



**Achromatopsia**  
54, 0.007, 296.813



**Achromatomaly**  
53, 23.960, 311.504

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 53, 63.137, 312.823 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(158, 101, 207)` looks like.

```
.text, #text, p{  
    color:rgb(158, 101, 207)  
}
```

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(158, 101, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(158, 101, 207) }
```

## Border

The CSS property to change the border of an element to CIELCh 53, 63.137, 312.823 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(158, 101, 207) }
```

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

```
.border{ border-color:rgb(158, 101, 207) }
```

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

Here you see how a box with a 4 pixel rgb(158, 101, 207) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(158, 101, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(158, 101, 207);  
box-shadow:4px 4px 4px 4px rgb(158, 101,  
207) }
```

# Background

The CSS property to change the background color of an element to CIELCh 53, 63.137, 312.823 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(158, 101, 207) }
```

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

```
.background{ background-color: rgb(158,  
101, 207) }
```

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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