

# Converting Colors

CIELCh(52, 50.982, 315.674)

Have a look what the booklet for  
CIELCh(52, 50.982, 315.674)  
contains.

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**Color**

**CIELCh(52, 50.387, 315.523)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9B67B9
RGB	155, 103, 185
RGB Percent	61%, 40%, 73%
CMY	0.3925, 0.5964, 0.2748
CMYK	0.16, 0.44, 0.00, 0.27
HSL	278°, 37%, 56%
HSV	278°, 44%, 73%
XYZ	27.0918, 20.1443, 48.3117
YIQ	127.8960, 4.6700, 36.5260

# Conversions

## Conversions Part 2

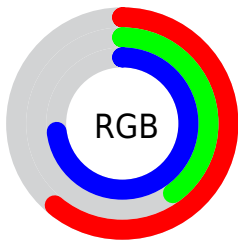
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	155, 103, 185
Decimal	10184633
CIE <sub>Lab</sub>	52.00, 35.95, -35.30
CIE <sub>LCh</sub>	52, 50.387, 315.523
Y <sub>xy</sub>	20.1443, 0.2835, 0.2108
Android (android.graphics.Color)	4288374713 (0xFF9B67B9)
Y <sub>UV</sub>	127.8960, 28.1523, 23.7702
Hunter-Lab	44.8824, 29.2015, -32.4024

# Details

The CIELCh color **52, 50.387, 315.523** is a dark color, and the websafe version is hex **9966CC**. A complement of this color would be **70, 48.293, 131.519**, and the grayscale version is **53, 0.007, 296.813**.

A 20% lighter version of the original color is **72, 50.327, 315.723**, and **32, 50.096, 315.660** is the 20% darker color. If you saturate the color by 10%, you get **47, 61.557, 315.900**, and if you desaturate by 10%, it is **57, 38.898, 315.094**.

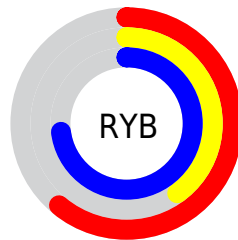
# Distribution



Red (61%)

Green (40%)

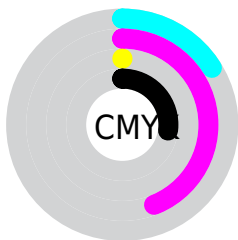
Blue (73%)



Red (61%)

Yellow (40%)

Blue (73%)

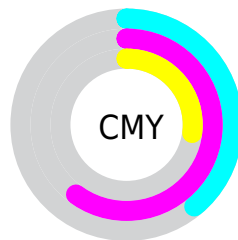


Cyan (16%)

Magenta (44%)

Yellow (0%)

Black (27%)



Cyan (39%)

Magenta (60%)


Yellow (27%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 52, 50.387, 315.523 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, 50.387, 315.523 by changing the saturation by 10% instead.





 52, 50.387,  
315.523


 52, 50.387,  
315.523


 100, 50.387,  
315.523


 42, 50.387,  
315.523


 72, 50.387,  
315.523

 32, 50.387,  
315.523

 82, 50.387,  
315.523

 22, 50.387,  
315.523

 92, 50.387,  
315.523

 12, 50.387,  
315.523

 2, 50.387, 315.523

 0, 50.387, 315.523

52, 50.387,  
315.523

52, 50.387,  
315.523

47, 61.557,  
315.900

57, 38.898,  
315.094

43, 72.007,  
316.177

62, 27.366,  
314.646

39, 81.188,  
316.288

67, 15.959,  
314.201

36, 88.459,  
316.156

73, 4.776, 313.757

78, 6.127, 133.419

34, 93.275,  
315.706

84, 16.727,  
133.040

32, 95.273,  
315.370

89, 27.016,  
132.706

94, 36.997,  
132.408

■ 96, 38.383,  
129.853

# Harmonies

# Complementary

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



52, 50.387, 315.523



70, 48.293, 131.519

# Rectangle

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



52, 50.387, 315.523



52, 50.387, 5.523



52, 50.387, 135.523



52, 50.387, 185.523

# Sweetspot

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



52, 50.385, 315.523



86, 17.841, 314.151



55, 30.765, 276.142



44, 12.507, 314.248



97, 0.011, 296.813



50, 0.007, 296.813





# Same Dimension

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



52, 50.385, 315.523



61, 74.156, 315.884



55, 49.157, 330.965



36, 6.233, 313.981



27, 83.765, 315.509



2, 16.386, 309.696



# Inverse Universe

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



54, 36.515, 356.834



64, 53.583, 358.595



69, 49.252, 144.682



36, 4.476, 352.361



33, 58.959, 14.168

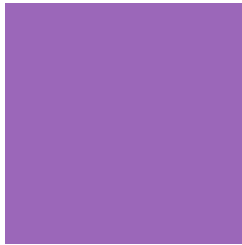


2, 11.467, 358.250



# Previews

## White Background



This preview shows how the CIELCh color 52, 50.387, 315.523 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 52, 50.387, 315.523 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

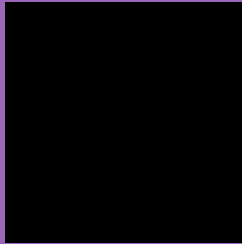
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 52, 50.387, 315.523

## Background



This preview shows how black text looks on a background with the CIELCh color 52, 50.387, 315.523.



This preview shows how white text looks on a background with the CIELCh color 52, 50.387, 315.523.

# 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

52, 50.387, 315.523

### Protanopia

52, 46.024, 285.668

### Deuteranopia

52, 34.015, 282.834





**Tritanopia**  
52, 13.272, 357.981

# Trichromacy



**Original Color**  
52, 50.387, 315.523

**Protanomaly**  
52, 46.486, 296.056

**Deuteranomaly**  
52, 38.472, 297.169

**Tritanomaly**  
52, 25.423, 327.273

# Monochromacy



**Original Color**  
52, 50.387, 315.523

**Achromatopsia**  
54, 0.007, 296.813

**Achromatomaly**  
53, 18.896, 314.416

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 52, 50.387, 315.523 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(155, 103, 185)` looks like.

```
.text, #text, p{  
    color:rgb(155, 103, 185)  
}
```

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(155, 103, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 103, 185) }
```

## Border

The CSS property to change the border of an element to CIELCh 52, 50.387, 315.523 is called "border". The border property can be set on classes, ids or directly on the HTML element.

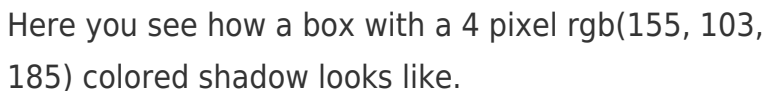
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(155, 103, 185) }
```

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

```
.border{ border-color:rgb(155, 103, 185) }
```

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



Here you see how a box with a 4 pixel `rgb(155, 103, 185)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(155, 103, 185); -webkit-box-shadow:4px 4px 4px 4px rgb(155, 103, 185); box-shadow:4px 4px 4px 4px rgb(155, 103, 185) }
```

# Background

The CSS property to change the background color of an element to CIELCh 52, 50.387, 315.523 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 103, 185) }
```

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

```
.background{ background-color: rgb(155,  
103, 185) }
```

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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