

# Converting Colors

CIELCh(50, 55.923, 312.050)

Have a look what the booklet for  
CIELCh(50, 55.923, 312.050)  
contains.

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**Color**

**CIELCh(50, 55.522, 311.844)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9162BE
RGB	145, 98, 190
RGB Percent	57%, 38%, 75%
CMY	0.4321, 0.6163, 0.2556
CMYK	0.24, 0.48, 0.00, 0.26
HSL	271°, 41%, 56%
HSV	271°, 48%, 74%
XYZ	25.2732, 18.4187, 50.8355
YIQ	122.5410, -1.5200, 38.5760

# Conversions

## Conversions Part 2

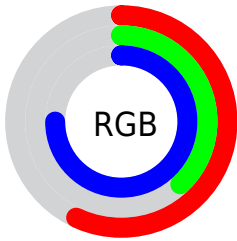
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	145, 98, 190
Decimal	9527998
CIE <sub>Lab</sub>	50.00, 37.04, -41.36
CIE <sub>LCh</sub>	50, 55.522, 311.844
Yxy	18.4187, 0.2674, 0.1949
Android (android.graphics.Color)	4287718078 (0xFF9162BE)
YUV	122.5410, 33.2573, 19.6965
Hunter-Lab	42.9170, 30.0113, -40.1877

# Details

The CIELCh color `50, 55.522, 311.844` is a dark color, and the websafe version is hex `9966CC`. A complement of this color would be `72, 51.822, 127.219`, and the grayscale version is `51, 0.007, 296.813`.

A 20% lighter version of the original color is `70, 55.552, 311.878`, and `30, 55.709, 311.998` is the 20% darker color. If you saturate the color by 10%, you get `45, 66.987, 312.319`, and if you desaturate by 10%, it is `55, 43.790, 311.322`.

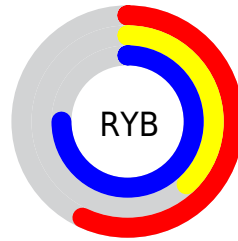
# Distribution



Red (57%)

Green (38%)

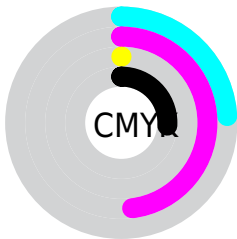
Blue (75%)



Red (57%)

Yellow (38%)

Blue (75%)

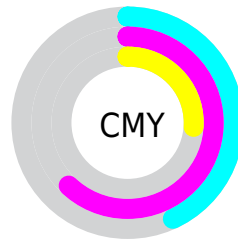


Cyan (24%)

Magenta (48%)

Yellow (0%)

Black (26%)



Cyan (43%)

Magenta (62%)


Yellow (26%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 55.522, 311.844 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 50, 55.522, 311.844 by changing the saturation by 10% instead.





 50, 55.522,  
311.844


 50, 55.522,  
311.844


 100, 55.522,  
311.844


 40, 55.522,  
311.844


 70, 55.522,  
311.844

 30, 55.522,  
311.844

 80, 55.522,  
311.844


 20, 55.522,  
311.844

 90, 55.522,  
311.844

 10, 55.522,  
311.844

 0, 55.522, 311.844

 50, 55.522,  
311.844

 50, 55.522,  
311.844

45, 66.987,  
312.319

55, 43.790,  
311.322

40, 77.737,  
312.684

61, 32.077,  
310.793

36, 87.122,  
312.848

66, 20.547,  
310.284

33, 94.365,  
312.703

72, 9.287, 309.803

30, 99.067,  
312.201

78, 1.659, 129.452

83, 12.277,  
129.001

30, 99.734,  
312.125

89, 22.566,  
128.649

95, 32.534,  
128.341

97, 34.420,  
124.507



# Harmonies

# Complementary

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



50, 55.522, 311.844



72, 51.822, 127.219

# Rectangle

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



50, 55.522, 311.844



50, 55.522, 1.844



50, 55.522, 131.844



50, 55.522, 181.844

# Sweetspot

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



50, 55.521, 311.844



87, 20.615, 310.126



58, 28.895, 264.391



45, 14.220, 310.230



99, 0.012, 296.813



52, 0.007, 296.813





# Same Dimension

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



50, 55.521, 311.844



58, 82.390, 312.340



55, 59.545, 326.955



37, 6.201, 309.845



24, 86.986, 312.281



2, 18.110, 305.360



# Inverse Universe

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



54, 42.967, 349.407



64, 62.495, 351.119



70, 59.821, 140.559



37, 4.944, 344.972



34, 59.245, 2.457



3, 13.866, 352.242



# Previews

## White Background



This preview shows how the CIELCh color 50, 55.522, 311.844 looks on a white background.

## Color Contrast Check

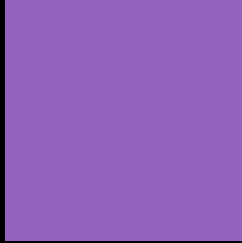
Large Text (above 18pt) WCAG AA ✓ Pass

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 50, 55.522, 311.844 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

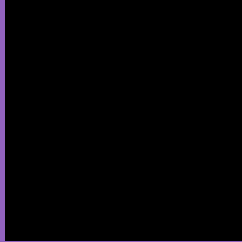
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 50, 55.522, 311.844

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 55.522, 311.844.

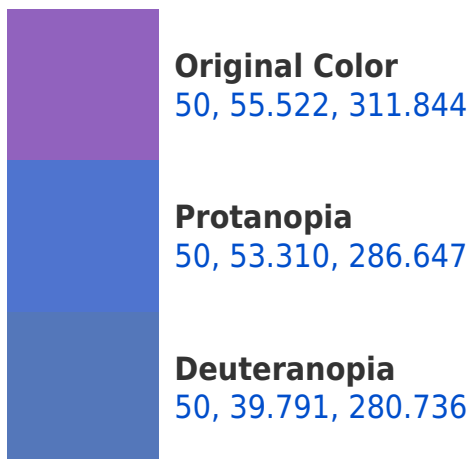


This preview shows how white text looks on a background with the CIELCh color 50, 55.522, 311.844.

# 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**  
50, 9.324, 346.267

# Trichromacy



**Original Color**  
50, 55.522, 311.844

**Protanomaly**  
50, 53.749, 294.908

**Deuteranomaly**  
50, 44.484, 293.742

**Tritanomaly**  
50, 25.372, 318.207

# Monochromacy



**Original Color**  
50, 55.522, 311.844

**Achromatopsia**  
51, 0.007, 296.813

**Achromatomaly**  
50, 20.978, 310.131

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 55.522, 311.844 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(145, 98, 190)` looks like.

```
.text, #text, p{  
    color:rgb(145, 98, 190)  
}
```

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(145, 98, 190) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 98, 190) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 55.522, 311.844 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(145, 98, 190) }
```

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

```
.border{ border-color:rgb(145, 98, 190) }
```

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

Here you see how a box with a 4 pixel `rgb(145, 98, 190)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 98, 190); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 98, 190);  
box-shadow:4px 4px 4px 4px rgb(145, 98,  
190) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 55.522, 311.844 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 98, 190) }
```

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

```
.background{ background-color: rgb(145, 98,  
190) }
```

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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