

# Converting Colors

CIELCh(58, 39.158, 306.591)

Have a look what the booklet for  
CIELCh(58, 39.158, 306.591)  
contains.

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# Color

**CIELCh(58, 38.616, 306.752)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9980C2
RGB	153, 128, 194
RGB Percent	60%, 50%, 76%
CMY	0.4014, 0.4994, 0.2407
CMYK	0.21, 0.34, 0.00, 0.24
HSL	263°, 35%, 63%
HSV	263°, 34%, 76%
XYZ	30.4354, 25.9610, 54.2221
YIQ	142.9990, -6.2860, 25.8260

# Conversions

## Conversions Part 2

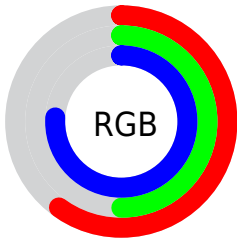
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	153, 128, 194
Decimal	10059970
CIE <sub>Lab</sub>	58.00, 23.11, -30.94
CIE <sub>LCh</sub>	58, 38.616, 306.752
Yxy	25.9610, 0.2751, 0.2347
Android (android.graphics.Color)	4288250050 (0xFF9980C2)
YUV	142.9990, 25.1435, 8.7709
Hunter-Lab	50.9519, 17.4586, -27.4290

# Details

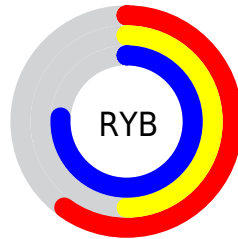
The CIELCh color  $58, 38.616, 306.752$  is a light color, and the websafe version is hex `9999CC`. A complement of this color would be  $75, 36.315, 122.962$ , and the grayscale version is  $59, 0.008, 296.813$ .

A 20% lighter version of the original color is  $78, 38.729, 306.597$ , and  $38, 38.269, 306.785$  is the 20% darker color. If you saturate the color by 10%, you get  $52, 50.595, 307.468$ , and if you desaturate by 10%, it is  $64, 26.876, 306.081$ .

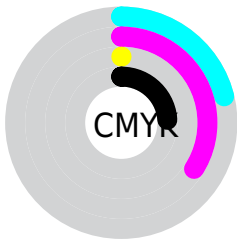
# Distribution



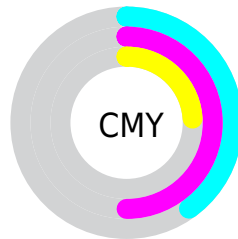
- Red (60%)
- Green (50%)
- Blue (76%)



- Red (60%)
- Yellow (50%)
- Blue (76%)



- Cyan (21%)
- Magenta (34%)
- Yellow (0%)
- Black (24%)




- Cyan (40%)
- Magenta (50%)
- Yellow (24%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 58, 38.616, 306.752 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, 38.616, 306.752 by changing the saturation by 10% instead.





 58, 38.616,  
306.752


 58, 38.616,  
306.752


 100, 38.616,  
306.752


 48, 38.616,  
306.752


 78, 38.616,  
306.752

 38, 38.616,  
306.752

 88, 38.616,  
306.752

 28, 38.616,  
306.752

 98, 38.616,  
306.752

 18, 38.616,  
306.752

 8, 38.616, 306.752

 0, 38.616, 306.752

58, 38.616,  
306.752

58, 38.616,  
306.752

52, 50.595,  
307.468

64, 26.876,  
306.081

47, 62.640,  
308.200

70, 15.462,  
305.468

41, 74.419,  
308.893

76, 4.406, 304.910

36, 85.364,  
309.455

82, 6.285, 124.456

32, 94.622,  
309.757

88, 16.619,  
124.026


29, 101.200,  
309.648

94, 26.611,  
123.656

28, 104.075,  
309.463

97, 31.737,  
120.227

98, 31.017,  
112.117

 99, 30.912,  
107.827

# Harmonies

# Complementary

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



58, 38.616, 306.752



75, 36.315, 122.962

# Rectangle

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



58, 38.616, 306.752



58, 38.616, 356.752



58, 38.616, 126.752



58, 38.616, 176.752

# Sweetspot

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



58, 38.615, 306.752



92, 13.544, 305.245



67, 18.752, 244.336



48, 9.337, 305.326



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, 38.615, 306.752



69, 58.218, 307.292



61, 42.021, 322.336



38, 6.187, 305.201



22, 90.477, 309.607



2, 19.879, 301.392



# Inverse Universe

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



61, 33.580, 340.411



74, 49.876, 341.158



73, 41.643, 138.764



38, 5.537, 338.301



35, 62.605, 350.754

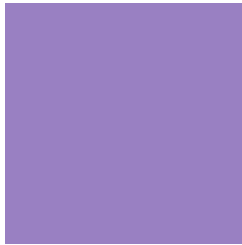


3, 17.133, 344.965



# Previews

## White Background



This preview shows how the CIELCh color 58, 38.616, 306.752 looks on a white background.

## Color Contrast Check

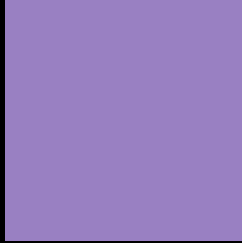
Large Text (above 18pt) WCAG AA ✓ Pass

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 58, 38.616, 306.752 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

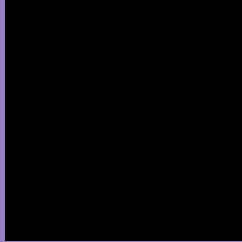
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 58, 38.616, 306.752**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 58, 38.616, 306.752.



This preview shows how white text looks on a background with the CIELCh color 58, 38.616, 306.752.

# 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**  
58, 38.616, 306.752

**Protanopia**  
58, 36.563, 285.586

**Deuteranopia**  
58, 30.878, 284.704





**Tritanopia**  
58, 7.009, 316.873

# Trichromacy



**Original Color**  
58, 38.616, 306.752

**Protanomaly**  
58, 36.403, 292.738

**Deuteranomaly**  
58, 33.588, 293.931

**Tritanomaly**  
58, 18.466, 308.268

# Monochromacy



**Original Color**  
58, 38.616, 306.752

**Achromatopsia**  
59, 0.008, 296.813

**Achromatomaly**  
59, 14.194, 306.844

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 38.616, 306.752 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(153, 128, 194)` looks like.

```
.text, #text, p{  
    color:rgb(153, 128, 194)  
}
```

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(153, 128, 194) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 128, 194) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 38.616, 306.752 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(153, 128, 194) }
```

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

```
.border{ border-color:rgb(153, 128, 194) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 128, 194)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 128, 194); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 128, 194);  
box-shadow:4px 4px 4px 4px rgb(153, 128,  
194) }
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 38.616, 306.752 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 128, 194) }
```

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

```
.background{ background-color: rgb(153,  
128, 194) }
```

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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