

# Converting Colors

CIELCh(62, 38.436, 309.561)

Have a look what the booklet for  
CIELCh(62, 38.436, 309.561)  
contains.

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# **Color**

**CIELCh(62, 38.045, 309.373)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A789CA
RGB	167, 137, 202
RGB Percent	65%, 54%, 79%
CMY	0.3448, 0.4625, 0.2075
CMYK	0.17, 0.32, 0.00, 0.21
HSL	268°, 38%, 66%
HSV	268°, 32%, 79%
XYZ	35.5771, 30.4025, 59.9169
YIQ	153.3800, -2.9850, 26.5750

# Conversions

## Conversions Part 2

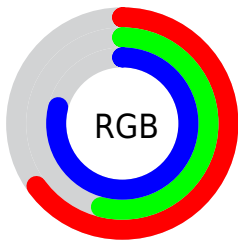
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	167, 137, 202
Decimal	10979786
CIE <sub>Lab</sub>	62.00, 24.13, -29.41
CIE <sub>LCh</sub>	62, 38.045, 309.373
Y <sub>xy</sub>	30.4025, 0.2826, 0.2415
Android (android.graphics.Color)	4289169866 (0xFFA789CA)
YUV	153.3800, 23.9697, 11.9447
Hunter-Lab	55.1385, 18.6815, -25.8313

# Details

The CIELCh color  $62, 38.045, 309.373$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $78, 36.216, 126.181$ , and the grayscale version is  $63, 0.008, 296.813$ .

A 20% lighter version of the original color is  $82, 35.766, 310.281$ , and  $42, 38.076, 309.243$  is the 20% darker color. If you saturate the color by 10%, you get  $56, 50.402, 309.962$ , and if you desaturate by 10%, it is  $68, 25.875, 308.807$ .

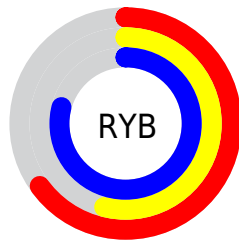
# Distribution



Red (65%)

Green (54%)

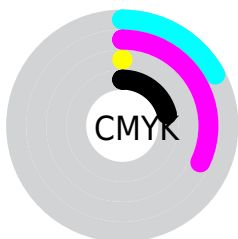
Blue (79%)



Red (65%)

Yellow (54%)

Blue (79%)

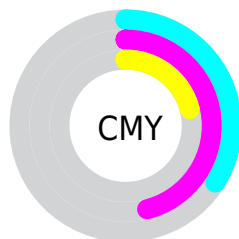


Cyan (17%)

Magenta (32%)

Yellow (0%)

Black (21%)



Cyan (34%)

Magenta (46%)


Yellow (21%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 62, 38.045, 309.373 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 62, 38.045, 309.373 by changing the saturation by 10% instead.





 62, 38.045,  
309.373


 62, 38.045,  
309.373


 100, 38.045,  
309.373


 52, 38.045,  
309.373


 82, 38.045,  
309.373

 42, 38.045,  
309.373

 92, 38.045,  
309.373

 32, 38.045,  
309.373

 22, 38.045,  
309.373

 12, 38.045,  
309.373

 2, 38.045, 309.373

 0, 38.045, 309.373

62, 38.045,  
309.373

62, 38.045,  
309.373

56, 50.402,  
309.962

68, 25.875,  
308.807

50, 62.754,  
310.545

74, 13.999,  
308.280

45, 74.757,  
311.072

80, 2.463, 307.768

86, 8.716, 127.397

40, 85.854,  
311.464

92, 19.538,  
127.013

36, 95.258,  
311.612


97, 28.103,  
125.491

33, 102.073,  
311.390

98, 27.104,  
117.469

31, 105.664,  
310.990

99, 26.702,  
108.861

 99, 26.697,  
108.151

# Harmonies

# Complementary

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



62, 38.045, 309.373



78, 36.216, 126.181

# Rectangle

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



62, 38.045, 309.373



62, 38.045, 359.373



62, 38.045, 129.373



62, 38.045, 179.373

# Sweetspot

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



62, 38.043, 309.373



93, 13.855, 308.178



69, 19.500, 254.733



48, 9.472, 308.249



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



62, 38.043, 309.373



72, 56.164, 309.806



65, 41.936, 324.727



40, 6.550, 308.141



25, 91.051, 311.149



2, 24.371, 305.243



# Inverse Universe

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



65, 31.144, 344.521



76, 45.523, 345.349



76, 41.826, 140.986



40, 5.452, 342.347



36, 61.970, 358.056

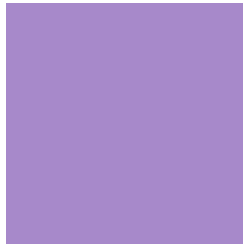


4, 20.332, 351.104



# Previews

## White Background



This preview shows how the CIELCh color 62, 38.045, 309.373 looks on a white background.

## Color Contrast Check

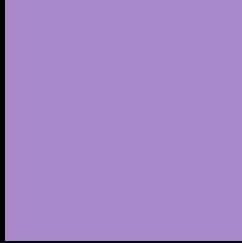
Large Text (above 18pt) WCAG AA × Fail

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 62, 38.045, 309.373 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

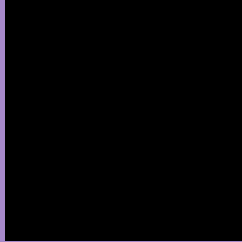
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 62, 38.045, 309.373

## Background



This preview shows how black text looks on a background with the CIELCh color 62, 38.045, 309.373.

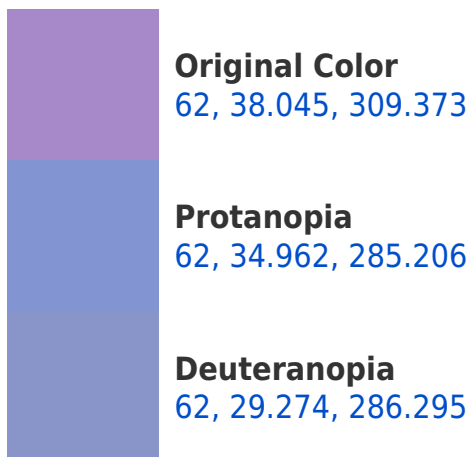


This preview shows how white text looks on a background with the CIELCh color 62, 38.045, 309.373.

# 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**  
62, 8.215, 331.539

# Trichromacy



**Original Color**  
62, 38.045, 309.373

**Protanomaly**  
62, 35.400, 293.932

**Deuteranomaly**  
62, 32.098, 295.937

**Tritanomaly**  
62, 18.476, 315.383

# Monochromacy



**Original Color**  
62, 38.045, 309.373

**Achromatopsia**  
63, 0.008, 296.813

**Achromatomaly**  
63, 14.122, 308.255

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 62, 38.045, 309.373 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(167, 137, 202)` looks like.

```
.text, #text, p{  
    color:rgb(167, 137, 202)  
}
```

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(167, 137, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 137, 202) }
```

## Border

The CSS property to change the border of an element to CIELCh 62, 38.045, 309.373 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(167, 137, 202) }
```

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

```
.border{ border-color:rgb(167, 137, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(167, 137, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(167, 137, 202); -webkit-box-shadow:4px 4px 4px 4px rgb(167, 137, 202); box-shadow:4px 4px 4px 4px rgb(167, 137, 202) }
```

# Background

The CSS property to change the background color of an element to CIELCh 62, 38.045, 309.373 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 137, 202) }
```

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

```
.background{ background-color: rgb(167,  
137, 202) }
```

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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