

# Converting Colors

CIELCh(62, 16.077, 311.342)

Have a look what the booklet for  
CIELCh(62, 16.077, 311.342)  
contains.

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# **Color**

**CIELCh(62, 16.230, 311.660)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9F90AB
RGB	159, 144, 171
RGB Percent	62%, 56%, 67%
CMY	0.3752, 0.4340, 0.3281
CMYK	0.07, 0.16, 0.00, 0.33
HSL	273°, 14%, 62%
HSV	273°, 16%, 67%
XYZ	31.7686, 30.4025, 42.8889
YIQ	151.5630, 0.2730, 11.5770

# Conversions

## Conversions Part 2

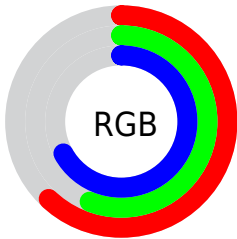
<b>Format</b>	<b>Color</b>
<b>RYB</b>	159, 144, 171
Decimal	10457259
CIELab	62.00, 10.79, -12.13
CIELCh	62, 16.230, 311.660
Yxy	30.4025, 0.3024, 0.2894
Android (android.graphics.Color)	4288647339 (0xFF9F90AB)
YUV	151.5630, 9.5824, 6.5222
Hunter-Lab	55.1385, 6.3523, -7.5212

# Details

The CIELCh color  $62, 16.230, 311.660$  is a light color, and the websafe version is hex `9999CC`. A complement of this color would be  $68, 15.929, 130.314$ , and the grayscale version is  $63, 0.008, 296.813$ .

A 20% lighter version of the original color is  $82, 15.969, 312.048$ , and  $42, 16.032, 310.679$  is the 20% darker color. If you saturate the color by 10%, you get  $57, 26.838, 312.131$ , and if you desaturate by 10%, it is  $67, 5.859, 311.205$ .

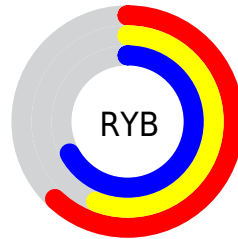
# Distribution



Red (62%)

Green (56%)

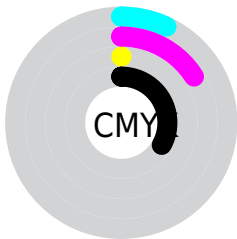
Blue (67%)



Red (62%)

Yellow (56%)

Blue (67%)

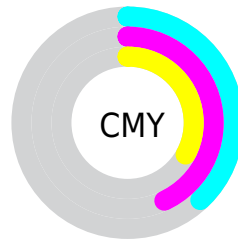


Cyan (7%)

Magenta (16%)

Yellow (0%)

Black (33%)



Cyan (38%)

Magenta (43%)


Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 62, 16.230, 311.660 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, 16.230, 311.660 by changing the saturation by 10% instead.





 62, 16.230,  
311.660


 62, 16.230,  
311.660


 100, 16.230,  
311.660


 52, 16.230,  
311.660


 82, 16.230,  
311.660

 42, 16.230,  
311.660

 92, 16.230,  
311.660

 32, 16.230,  
311.660

 22, 16.230,  
311.660

 12, 16.230,  
311.660

 2, 16.230, 311.660

 0, 16.230, 311.660

62, 16.230,  
311.660

62, 16.230,  
311.660

57, 26.838,  
312.131

67, 5.859, 311.205

52, 37.610,  
312.618

72, 4.232, 130.848

47, 48.403,  
313.097

77, 14.028,  
130.460

42, 58.983,  
313.533

83, 23.529,  
130.126

38, 68.977,  
313.874

88, 32.742,  
129.831

34, 77.857,  
314.044

93, 41.676,  
129.572

31, 84.969,  
313.950

95, 45.097,  
127.747

29, 89.759,

96, 44.106,  
124.405

313.509

96, 43.275,  
120.859

28, 91.478,  
313.298

# Harmonies

# Complementary

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



62, 16.230, 311.660



68, 15.929, 130.314

# Rectangle

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



62, 16.230, 311.660



62, 16.230, 1.660



62, 16.230, 131.660



62, 16.230, 181.660

# Sweetspot

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



62, 16.228, 311.659



85, 6.268, 311.173



64, 9.269, 262.841



45, 4.314, 311.205



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



62, 16.228, 311.659



76, 24.243, 311.825



63, 17.618, 326.666



34, 5.837, 311.365



24, 83.054, 313.415



1, 11.949, 307.688



# Inverse Universe

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



63, 12.450, 348.139



77, 18.594, 348.501



67, 17.596, 144.844



34, 4.477, 347.511



32, 56.952, 6.496

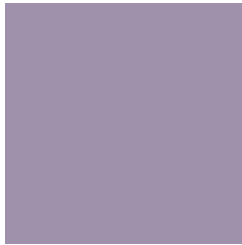


2, 8.868, 351.774



# Previews

## White Background



This preview shows how the CIELCh color 62, 16.230, 311.660 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, 16.230, 311.660 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

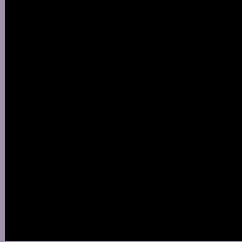
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 62, 16.230, 311.660**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 62, 16.230, 311.660.



This preview shows how white text looks on a background with the CIELCh color 62, 16.230, 311.660.

# 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

62, 16.230, 311.660

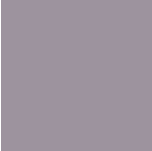
### Protanopia

62, 14.073, 285.880

### Deuteranopia

62, 14.407, 303.402





**Tritanopia**  
62, 7.294, 322.275

# Trichromacy



**Original Color**  
62, 16.230, 311.660

**Protanomaly**  
62, 14.677, 296.002

**Deuteranomaly**  
62, 15.232, 307.088

**Tritanomaly**  
62, 10.614, 316.334

# Monochromacy



**Original Color**  
62, 16.230, 311.660

**Achromatopsia**  
63, 0.008, 296.813

**Achromatomaly**  
62, 6.082, 312.718

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 62, 16.230, 311.660 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(159, 144, 171)` looks like.

```
.text, #text, p{  
    color:rgb(159, 144, 171)  
}
```

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(159, 144, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 144, 171) }
```

## Border

The CSS property to change the border of an element to CIELCh 62, 16.230, 311.660 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(159, 144, 171) }
```

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

```
.border{ border-color:rgb(159, 144, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 144, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(159, 144, 171); -webkit-box-shadow:4px 4px 4px 4px rgb(159, 144, 171); box-shadow:4px 4px 4px 4px rgb(159, 144, 171) }
```

# Background

The CSS property to change the background color of an element to CIELCh 62, 16.230, 311.660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 144, 171) }
```

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

```
.background{ background-color: rgb(159,  
144, 171) }
```

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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