

# Converting Colors

CIELCh(70, 12.456, 311.114)

Have a look what the booklet for  
CIELCh(70, 12.456, 311.114)  
contains.

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# Color

**CIELCh(70, 12.249, 310.375)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B2A7BC
RGB	178, 167, 188
RGB Percent	70%, 65%, 74%
CMY	0.3018, 0.3450, 0.2626
CMYK	0.05, 0.11, 0.00, 0.26
HSL	271°, 14%, 70%
HSV	271°, 11%, 74%
XYZ	41.2719, 40.7494, 53.2844
YIQ	172.6830, -0.1850, 8.8630

# Conversions

## Conversions Part 2

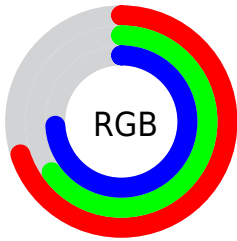
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	178, 167, 188
Decimal	11708348
CIE Lab	70.00, 7.93, -9.33
CIE LCh	70, 12.249, 310.375
Yxy	40.7494, 0.3050, 0.3012
Android (android.graphics.Color)	4289898428 (0xFFB2A7BC)
YUV	172.6830, 7.5513, 4.6630
Hunter-Lab	63.8353, 3.6952, -4.8057

# Details

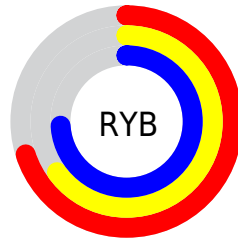
The CIELCh color  $70, 12.249, 310.375$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $75, 12.067, 129.421$ , and the grayscale version is  $71, 0.009, 296.813$ .

A 20% lighter version of the original color is  $90, 12.244, 311.019$ , and  $50, 12.394, 309.716$  is the 20% darker color. If you saturate the color by 10%, you get  $64, 23.522, 310.854$ , and if you desaturate by 10%, it is  $76, 1.269, 309.849$ .

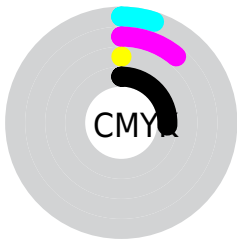
# Distribution



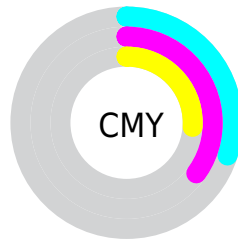
- Red (70%)
- Green (65%)
- Blue (74%)



- Red (70%)
- Yellow (65%)
- Blue (74%)



- Cyan (5%)
- Magenta (11%)
- Yellow (0%)
- Black (26%)




- Cyan (30%)
- Magenta (35%)
- Yellow (26%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 12.249, 310.375 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 70, 12.249, 310.375 by changing the saturation by 10% instead.





 70, 12.249,  
310.375


 70, 12.249,  
310.375


 100, 12.249,  
310.375


 60, 12.249,  
310.375


 90, 12.249,  
310.375

 50, 12.249,  
310.375

 40, 12.249,  
310.375

 30, 12.249,  
310.375

 20, 12.249,  
310.375

 10, 12.249,  
310.375

 0, 12.249, 310.375

70, 12.249,  
310.375

70, 12.249,  
310.375

64, 23.522,  
310.854

76, 1.269, 309.849

59, 35.039,  
311.361

81, 9.388, 129.558

54, 46.689,  
311.877

87, 19.720,  
129.195

48, 58.277,  
312.376

92, 29.732,  
128.877

43, 69.478,  
312.809

96, 35.955,  
127.152

39, 79.792,  
313.109

97, 34.915,  
122.122


35, 88.533,  
313.181

98, 34.170,  
116.730

32, 94.948,

98, 33.759,  
111.065

312.918

 99, 33.685,  
107.613

 30, 98.750,  
312.438

# Harmonies

# Complementary

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



70, 12.249, 310.375



75, 12.067, 129.421

# Rectangle

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



70, 12.249, 310.375



70, 12.249, 0.375



70, 12.249, 130.375



70, 12.249, 180.375

# Sweetspot

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



70, 12.247, 310.373



94, 4.037, 309.987



72, 6.876, 258.728



50, 3.061, 310.029



98, 0.011, 296.813



51, 0.007, 296.813





# Same Dimension

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



70, 12.247, 310.373



87, 17.714, 310.469



71, 13.745, 325.479



37, 6.218, 310.289



25, 86.747, 312.586



2, 18.151, 305.812



# Inverse Universe

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



71, 9.654, 345.864



88, 13.959, 346.058



74, 13.726, 144.241



37, 4.902, 345.694



34, 59.153, 3.681

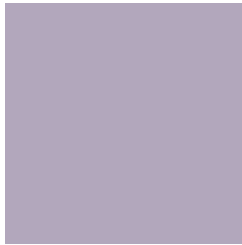


3, 13.771, 352.999



# Previews

## White Background



This preview shows how the CIELCh color 70, 12.249, 310.375 looks on a white background.

## Color Contrast Check

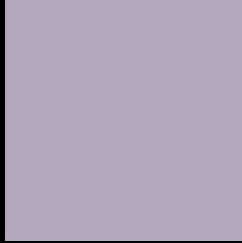
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 70, 12.249, 310.375 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

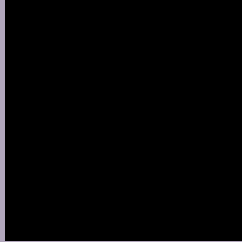
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

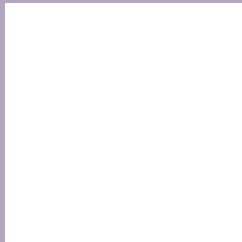
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 70, 12.249, 310.375

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 12.249, 310.375.



This preview shows how white text looks on a background with the CIELCh color 70, 12.249, 310.375.

# 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

70, 12.249, 310.375

### Protanopia

70, 10.958, 289.397

### Deuteranopia

70, 13.168, 314.158





**Tritanopia**  
70, 7.907, 315.763

# Trichromacy



**Original Color**  
70, 12.249, 310.375

**Protanomaly**  
70, 11.038, 296.887

**Deuteranomaly**  
70, 13.030, 312.660

**Tritanomaly**  
70, 9.418, 311.574

# Monochromacy



**Original Color**  
70, 12.249, 310.375

**Achromatopsia**  
71, 0.009, 296.813

**Achromatomaly**  
70, 4.132, 311.654

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 12.249, 310.375 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(178, 167, 188)` looks like.

```
.text, #text, p{  
    color:rgb(178, 167, 188)  
}
```

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(178, 167, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 167, 188) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 12.249, 310.375 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(178, 167, 188) }
```

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

```
.border{ border-color:rgb(178, 167, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 167, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 167, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 167, 188);  
box-shadow:4px 4px 4px 4px rgb(178, 167,  
188) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 12.249, 310.375 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 167, 188) }
```

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

```
.background{ background-color: rgb(178,  
167, 188) }
```

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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