

# Converting Colors

CIELCh(70, 18.090, 308.107)

Have a look what the booklet for  
CIELCh(70, 18.090, 308.107)  
contains.

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# Color

**CIELCh(70, 18.438, 308.736)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4A5C5
RGB	180, 165, 197
RGB Percent	71%, 65%, 77%
CMY	0.2933, 0.3522, 0.2266
CMYK	0.09, 0.16, 0.00, 0.23
HSL	268°, 22%, 71%
HSV	268°, 16%, 77%
XYZ	42.4612, 40.7494, 58.5731
YIQ	173.1330, -1.3320, 13.1320

# Conversions

## Conversions Part 2

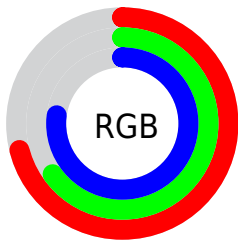
Format	Color
<a href="#">RYB</a>	<a href="#">180, 165, 197</a>
Decimal	<a href="#">11838917</a>
CIELab	<a href="#">70.00, 11.54, -14.38</a>
CIELCh	<a href="#">70, 18.438, 308.736</a>
Yxy	<a href="#">40.7494, 0.2995, 0.2874</a>
Android (android.graphics.Color)	<a href="#">4290028997 (0xFFB4A5C5)</a>
YUV	<a href="#">173.1330, 11.7664, 6.0224</a>
Hunter-Lab	<a href="#">63.8353, 7.0208, -9.7178</a>

# Details

The CIELCh color `70, 18.438, 308.736` is a light color, and the websafe version is hex `9999CC`. A complement of this color would be `78, 18.007, 127.227`, and the grayscale version is `71, 0.009, 296.813`.

A 20% lighter version of the original color is `90, 18.611, 308.664`, and `50, 18.442, 308.887` is the 20% darker color. If you saturate the color by 10%, you get `64, 30.212, 309.272`, and if you desaturate by 10%, it is `76, 6.975, 308.235`.

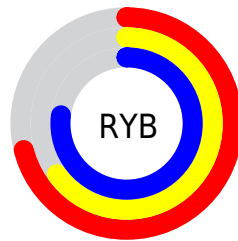
# Distribution



Red (71%)

Green (65%)

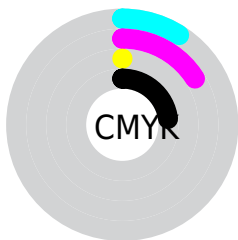
Blue (77%)



Red (71%)

Yellow (65%)

Blue (77%)

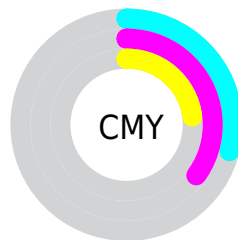


Cyan (9%)

Magenta (16%)

Yellow (0%)

Black (23%)



Cyan (29%)

Magenta (35%)


Yellow (23%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 18.438, 308.736 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, 18.438, 308.736 by changing the saturation by 10% instead.





 70, 18.438,  
308.736


 70, 18.438,  
308.736


 100, 18.438,  
308.736


 60, 18.438,  
308.736


 90, 18.438,  
308.736

 50, 18.438,  
308.736

 40, 18.438,  
308.736

 30, 18.438,  
308.736

 20, 18.438,  
308.736

 10, 18.438,  
308.736

 0, 18.438, 308.736

70, 18.438,  
308.736

70, 18.438,  
308.736

64, 30.212,  
309.272

76, 6.975, 308.235

58, 42.237,  
309.840

82, 4.143, 127.833

53, 54.376,  
310.421

88, 14.912,  
127.421

47, 66.384,  
310.976

94, 25.338,  
127.070

42, 77.848,  
311.446

97, 30.417,  
123.889

38, 88.134,  
311.740

98, 29.518,  
116.696

34, 96.406,  
311.743

99, 29.137,  
109.049

31, 101.892,

99, 29.129,  
107.964

311.342

■ 30, 103.577,  
311.159

# Harmonies

# Complementary

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



70, 18.438, 308.736



78, 18.007, 127.227

# Rectangle

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



70, 18.438, 308.736



70, 18.438, 358.736



70, 18.438, 128.736



70, 18.438, 178.736

# Sweetspot

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



70, 18.436, 308.735



96, 6.888, 308.178



73, 9.944, 253.919



51, 4.704, 308.213



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



70, 18.436, 308.735



86, 26.709, 308.895



71, 20.836, 324.388



39, 6.423, 308.390



24, 89.868, 311.314



2, 22.248, 304.809



# Inverse Universe

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



71, 15.205, 343.330



88, 21.990, 343.614



77, 20.797, 142.603



39, 5.313, 342.716



35, 61.155, 358.659

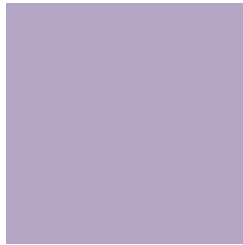


4, 18.180, 351.064



# Previews

## White Background



This preview shows how the CIELCh color 70, 18.438, 308.736 looks on a white background.

## Color Contrast Check

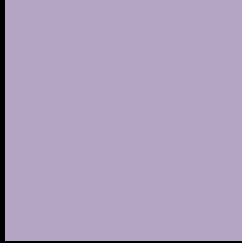
Large Text (above 18pt) WCAG AA × Fail

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, 18.438, 308.736 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

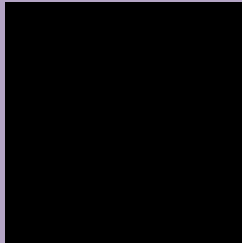
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 70, 18.438, 308.736

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 18.438, 308.736.



This preview shows how white text looks on a background with the CIELCh color 70, 18.438, 308.736.

# 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, 18.438, 308.736


### Protanopia

70, 16.486, 285.764

### Deuteranopia

70, 16.752, 301.535





**Tritanopia**  
70, 8.073, 318.165

# Trichromacy



**Original Color**  
70, 18.438, 308.736

**Protanomaly**  
70, 17.057, 295.391

**Deuteranomaly**  
70, 17.522, 304.724

**Tritanomaly**  
70, 11.867, 312.917

# Monochromacy



**Original Color**  
70, 18.438, 308.736

**Achromatopsia**  
71, 0.009, 296.813

**Achromatomaly**  
70, 6.964, 309.340

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 18.438, 308.736 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(180, 165, 197)` looks like.

```
.text, #text, p{  
    color:rgb(180, 165, 197)  
}
```

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(180, 165, 197) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 165, 197) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 18.438, 308.736 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(180, 165, 197) }
```

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

```
.border{ border-color:rgb(180, 165, 197) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 165, 197)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 165, 197); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 165, 197);  
box-shadow:4px 4px 4px 4px rgb(180, 165,  
197) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 18.438, 308.736 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 165, 197) }
```

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

```
.background{ background-color: rgb(180,  
165, 197) }
```

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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