

# Converting Colors

CIELCh(72, 18.633, 333.116)

Have a look what the booklet for  
CIELCh(72, 18.633, 333.116)  
contains.

<b>CIELCh(72, 18.298, 333.116)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# **Color**

**CIELCh(72, 18.298, 333.116)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C8A7C0
RGB	200, 167, 192
RGB Percent	78%, 65%, 75%
CMY	0.2161, 0.3455, 0.2475
CMYK	0.00, 0.17, 0.04, 0.22
HSL	315°, 23%, 72%
HSV	315°, 17%, 78%
XYZ	47.0867, 43.6590, 55.7462
YIQ	179.7170, 11.6430, 14.7710

# Conversions

## Conversions Part 2

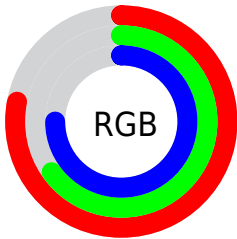
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	200, 167, 192
Decimal	13150144
CIE Lab	72.00, 16.32, -8.27
CIE LCh	72, 18.298, 333.116
Yxy	43.6590, 0.3214, 0.2980
Android (android.graphics.Color)	4291340224 (0xFFC8A7C0)
YUV	179.7170, 6.0555, 17.7882
Hunter-Lab	66.0750, 11.5725, -3.7694

# Details

The CIELCh color  $72, 18.298, 333.116$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $78, 18.206, 150.913$ , and the grayscale version is  $73, 0.009, 296.813$ .

A 20% lighter version of the original color is  $92, 17.827, 331.761$ , and  $52, 18.461, 332.777$  is the 20% darker color. If you saturate the color by 10%, you get  $67, 29.447, 333.818$ , and if you desaturate by 10%, it is  $77, 7.166, 332.428$ .

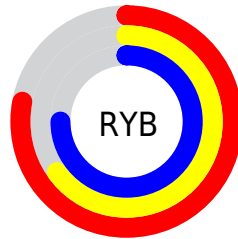
# Distribution



Red (78%)

Green (65%)

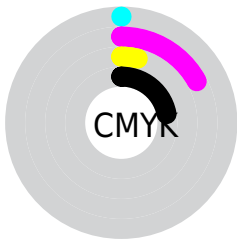
Blue (75%)



Red (78%)

Yellow (65%)

Blue (75%)

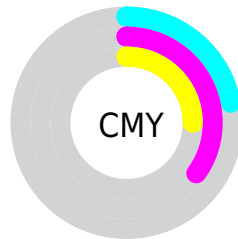


Cyan (0%)

Magenta (17%)

Yellow (4%)

Black (22%)



Cyan (22%)

Magenta (35%)


Yellow (25%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 18.298, 333.116 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 72, 18.298, 333.116 by changing the saturation by 10% instead.





 72, 18.298,  
333.116


 72, 18.298,  
333.116


 100, 18.298,  
333.116


 62, 18.298,  
333.116


 92, 18.298,  
333.116

 52, 18.298,  
333.116

 42, 18.298,  
333.116

 32, 18.298,  
333.116

 22, 18.298,  
333.116

 12, 18.298,  
333.116

 2, 18.298, 333.116

72, 18.298,  
333.116

72, 18.298,  
333.116

67, 29.447,  
333.818

77, 7.166, 332.428

62, 40.398,  
334.550

82, 3.798, 151.927

58, 50.827,  
335.320

88, 14.510,  
151.265

54, 60.313,  
336.139

93, 24.923,  
150.689

51, 68.355,  
337.026

95, 27.971,  
152.412

48, 74.446,  
338.010

96, 26.162,  
156.054

96, 24.457,

■ 46, 78.211,  
339.135

160.198

■ 45, 79.597,  
340.452

■ 96, 22.882,  
164.916

■ 45, 79.807,  
340.940

■ 96, 21.467,  
170.271

# Harmonies

# Complementary

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



72, 18.298, 333.116



78, 18.206, 150.913

# Rectangle

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



72, 18.298, 333.116



72, 18.298, 23.116



72, 18.298, 153.116



72, 18.298, 203.116

# Sweetspot

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



72, 18.296, 333.117



97, 6.705, 332.323



70, 18.352, 300.431



51, 4.576, 332.375



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



72, 18.296, 333.117



87, 27.054, 333.379



72, 13.485, 359.927



39, 6.234, 332.628



36, 68.829, 340.706



4, 21.619, 337.231



# Inverse Universe

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



72, 18.296, 333.117



87, 27.054, 333.379



78, 12.789, 176.807



39, 6.234, 332.628



36, 68.829, 340.706

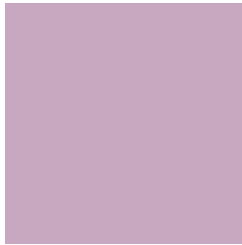


4, 21.619, 337.231



# Previews

## White Background



This preview shows how the CIELCh color 72, 18.298, 333.116 looks on a white background.

## Color Contrast Check

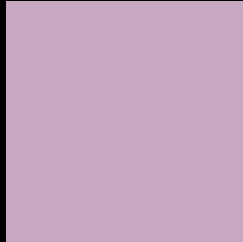
Large Text (above 18pt) WCAG AA × Fail

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 72, 18.298, 333.116 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

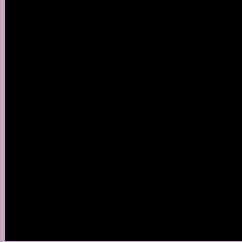
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 72, 18.298, 333.116

## Background



This preview shows how black text looks on a background with the CIELCh color 72, 18.298, 333.116.



This preview shows how white text looks on a background with the CIELCh color 72, 18.298, 333.116.

# 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

72, 18.298, 333.116


### Protanopia

72, 11.988, 289.649

### Deuteranopia

72, 11.777, 318.911





**Tritanopia**  
72, 13.030, 347.816

# Trichromacy



**Original Color**  
72, 18.298, 333.116

**Protanomaly**  
72, 13.216, 308.840

**Deuteranomaly**  
72, 14.069, 326.298

**Tritanomaly**  
72, 15.193, 340.751

# Monochromacy



**Original Color**  
72, 18.298, 333.116

**Achromatopsia**  
73, 0.009, 296.813

**Achromatomaly**  
73, 6.659, 332.704

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 18.298, 333.116 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(200, 167, 192)` looks like.

```
.text, #text, p{  
    color:rgb(200, 167, 192)  
}
```

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(200, 167, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 167, 192) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 18.298, 333.116 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(200, 167, 192) }
```

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

```
.border{ border-color:rgb(200, 167, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 167, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 167, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 167, 192);  
box-shadow:4px 4px 4px 4px rgb(200, 167,  
192) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 18.298, 333.116 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 167, 192) }
```

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

```
.background{ background-color: rgb(200,  
167, 192) }
```

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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