

# Converting Colors

CIELCh(70, 22.767, 333.457)

Have a look what the booklet for  
CIELCh(70, 22.767, 333.457)  
contains.

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# Color

**CIELCh(70, 22.745, 333.451)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C89FBE
RGB	200, 159, 190
RGB Percent	78%, 62%, 75%
CMY	0.2160, 0.3768, 0.2552
CMYK	0.00, 0.21, 0.05, 0.22
HSL	315°, 27%, 70%
HSV	315°, 21%, 78%
XYZ	45.4652, 40.7494, 54.1354
YIQ	174.7930, 14.4850, 18.3330

# Conversions

## Conversions Part 2

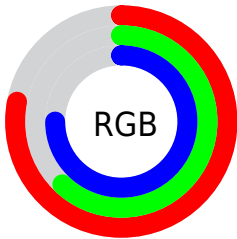
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	200, 159, 190
Decimal	13148094
CIE Lab	70.00, 20.35, -10.17
CIE LCh	70, 22.745, 333.451
Yxy	40.7494, 0.3239, 0.2903
Android (android.graphics.Color)	4291338174 (0xFFC89FBE)
YUV	174.7930, 7.4971, 22.1065
Hunter-Lab	63.8353, 15.4209, -5.5961

# Details

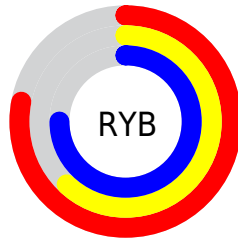
The CIELCh color  $70, 22.745, 333.451$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $77, 22.615, 150.639$ , and the grayscale version is  $71, 0.009, 296.813$ .

A 20% lighter version of the original color is  $90, 22.070, 332.243$ , and  $50, 23.159, 333.336$  is the 20% darker color. If you saturate the color by 10%, you get  $65, 33.836, 334.166$ , and if you desaturate by 10%, it is  $75, 11.593, 332.762$ .

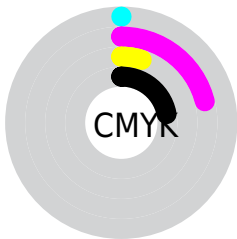
# Distribution



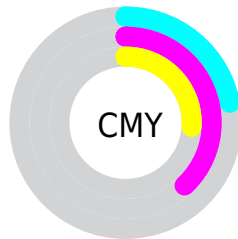
- Red (78%)
- Green (62%)
- Blue (75%)



- Red (78%)
- Yellow (62%)
- Blue (75%)



- Cyan (0%)
- Magenta (21%)
- Yellow (5%)
- Black (22%)




- Cyan (22%)
- Magenta (38%)
- Yellow (26%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 22.745, 333.451 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, 22.745, 333.451 by changing the saturation by 10% instead.





 70, 22.745,  
333.451


 70, 22.745,  
333.451


 100, 22.745,  
333.451


 60, 22.745,  
333.451


 90, 22.745,  
333.451

 50, 22.745,  
333.451

 40, 22.745,  
333.451

 30, 22.745,  
333.451

 20, 22.745,  
333.451

 10, 22.745,  
333.451

 0, 22.745, 333.451

70, 22.745,  
333.451

70, 22.745,  
333.451

65, 33.836,  
334.166

75, 11.593,  
332.762

61, 44.613,  
334.914

80, 0.560, 331.572

56, 54.714,  
335.705

86, 10.250,  
151.565

53, 63.678,  
336.552

91, 20.776,  
150.969

50, 70.991,  
337.478

95, 28.663,  
151.147

47, 76.179,  
338.519

96, 26.809,  
154.643


46, 78.964,  
339.725

96, 25.052,  
158.622

45, 79.732,

96, 23.417,  
163.155

341.040

 96, 21.932,  
168.312

# Harmonies

# Complementary

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



70, 22.745, 333.451



77, 22.615, 150.639

# Rectangle

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



70, 22.745, 333.451



70, 22.745, 23.451



70, 22.745, 153.451



70, 22.745, 203.451

# Sweetspot

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



70, 22.743, 333.452



96, 8.043, 332.453



68, 22.971, 300.754



51, 5.337, 332.501



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, 22.743, 333.452



84, 33.811, 333.795



69, 16.892, 0.400



39, 6.227, 332.685



36, 68.757, 340.803



4, 21.591, 337.313



# Inverse Universe

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



70, 22.743, 333.452



84, 33.811, 333.795



77, 15.805, 176.401



39, 6.227, 332.685



36, 68.757, 340.803

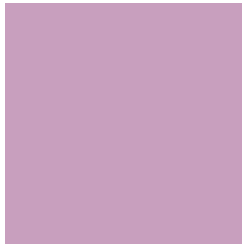


4, 21.591, 337.313



# Previews

## White Background



This preview shows how the CIELCh color 70, 22.745, 333.451 looks on a white background.

## Color Contrast Check

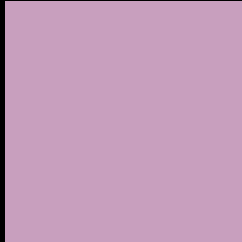
Large Text (above 18pt) WCAG AA × Fail

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, 22.745, 333.451 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

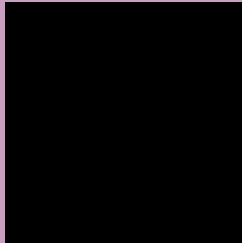
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 70, 22.745, 333.451

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 22.745, 333.451.



This preview shows how white text looks on a background with the CIELCh color 70, 22.745, 333.451.

# 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, 22.745, 333.451

### Protanopia

70, 14.806, 287.568

### Deuteranopia

70, 12.510, 313.567





**Tritanopia**  
70, 15.241, 355.469

# Trichromacy



**Original Color**  
70, 22.745, 333.451

**Protanomaly**  
70, 16.124, 308.488

**Deuteranomaly**  
70, 16.157, 322.911

**Tritanomaly**  
70, 17.707, 345.297

# Monochromacy



**Original Color**  
70, 22.745, 333.451

**Achromatopsia**  
71, 0.009, 296.813

**Achromatomaly**  
71, 8.260, 333.467

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 22.745, 333.451 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, 159, 190)` looks like.

```
.text, #text, p{  
    color:rgb(200, 159, 190)  
}
```

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, 159, 190) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 159, 190) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 22.745, 333.451 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, 159, 190) }
```

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

```
.border{ border-color:rgb(200, 159, 190) }
```

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

Here you see how a box with a 4 pixel rgb(200, 159, 190) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 159, 190); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 159, 190);  
box-shadow:4px 4px 4px 4px rgb(200, 159,  
190) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 22.745, 333.451 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 159, 190) }
```

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

```
.background{ background-color: rgb(200,  
159, 190) }
```

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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