

# Converting Colors

CIELCh(70, 12.839, 99.634)

Have a look what the booklet for  
CIELCh(70, 12.839, 99.634) contains.

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# Color

**CIELCh(70, 12.748, 98.113)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1AB94
RGB	177, 171, 148
RGB Percent	69%, 67%, 58%
CMY	0.3048, 0.3284, 0.4186
CMYK	0.00, 0.03, 0.16, 0.30
HSL	48°, 16%, 64%
HSV	48°, 16%, 70%
XYZ	38.1699, 40.7494, 33.9767
YIQ	170.1720, 10.9590, -5.8810

# Conversions

## Conversions Part 2

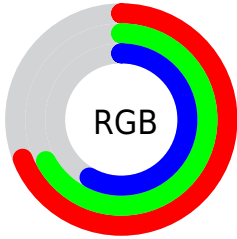
Format	Color
RYB	156, 177, 148
Decimal	11643796
CIELab	70.00, -1.80, 12.62
CIElCh	70, 12.748, 98.113
Yxy	40.7494, 0.3381, 0.3609
Android (android.graphics.Color)	4289833876 (0xFFB1AB94)
YUV	170.1720, -10.9308, 5.9882
Hunter-Lab	63.8353, -4.9787, 13.1272

# Details

The CIELCh color **70, 12.748, 98.113** is a light color, and the websafe version is hex **999999**. A complement of this color would be **64, 12.967, 282.050**, and the grayscale version is **70, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 12.679, 97.239**, and **50, 12.966, 98.899** is the 20% darker color. If you saturate the color by 10%, you get **69, 20.606, 96.944**, and if you desaturate by 10%, it is **71, 4.933, 99.251**.

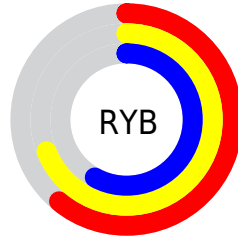
# Distribution



Red (69%)

Green (67%)

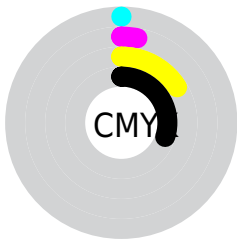
Blue (58%)



Red (61%)

Yellow (69%)

Blue (58%)

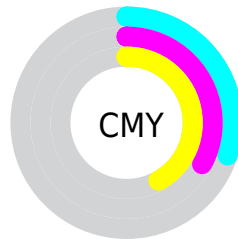


Cyan (0%)

Magenta (3%)

Yellow (16%)

Black (30%)



Cyan (30%)

Magenta (33%)

Yellow (42%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 12.748, 98.113 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, 12.748, 98.113 by changing the saturation by 10% instead.



 70, 12.748, 98.113

 70, 12.748, 98.113

 100, 12.748,  
98.113

 60, 12.748, 98.113

 90, 12.748, 98.113

 50, 12.748, 98.113

 40, 12.748, 98.113

 30, 12.748, 98.113

 20, 12.748, 98.113

 10, 12.748, 98.113

 0, 12.748, 98.113

 70, 12.748, 98.113

 70, 12.748, 98.113

 69, 20.606, 96.944

 71, 4.933, 99.251

67, 28.456, 95.739

73, 2.817, 280.443

66, 36.212, 94.511

74, 10.489,  
281.471

65, 43.721, 93.268

76, 18.078,  
282.486

64, 50.727, 92.006

63, 56.825, 90.715

77, 25.582,  
283.457

62, 61.455, 89.359

79, 33.002,  
284.380

61, 64.110, 87.878

60, 64.873, 87.333

80, 31.346,  
281.591

81, 29.575,  
278.392

82, 27.906,  
274.824

# Harmonies

# Complementary

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



70, 12.748, 98.113



64, 12.967, 282.050

# Rectangle

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



70, 12.748, 98.113



70, 12.748, 148.113



70, 12.748, 278.113



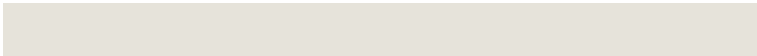
70, 12.748, 328.113

# Sweetspot

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



70, 12.749, 98.121



90, 4.776, 99.388



64, 11.893, 3.559



48, 3.257, 99.315



96, 0.011, 296.813



48, 0.006, 296.813



# Same Dimension

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



70, 12.749, 98.121



88, 19.251, 97.658



71, 16.065, 120.222



37, 4.422, 98.924



52, 58.261, 87.540



7, 9.775, 94.370





# Inverse Universe

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



64, 12.967, 282.050



78, 19.660, 282.628



63, 16.581, 302.208



35, 4.471, 281.115



21, 78.313, 301.817



2, 11.266, 282.722



# Previews

## White Background



This preview shows how the CIELCh color 70, 12.748, 98.113 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 70, 12.748, 98.113 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

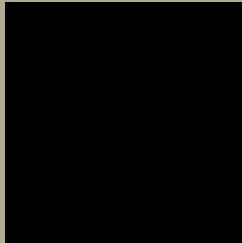
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

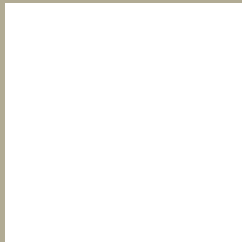
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 70, 12.748, 98.113**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 12.748, 98.113.



This preview shows how white text looks on a background with the CIELCh color 70, 12.748, 98.113.

# 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, 12.748, 98.113

### Protanopia

70, 12.921, 94.620

### Deuteranopia

70, 14.661, 53.923



**Tritanopia**  
70, 9.099, 328.757



# Trichromacy



**Original Color**  
70, 12.748, 98.113

**Protanomaly**  
70, 12.828, 96.356

**Deuteranomaly**  
70, 13.252, 67.390

**Tritanomaly**  
70, 4.237, 27.039

# Monochromacy



**Original Color**  
70, 12.748, 98.113

**Achromatopsia**  
70, 0.009, 296.813

**Achromatomaly**  
70, 4.506, 94.888

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 12.748, 98.113 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(177, 171, 148)` looks like.

```
.text, #text, p{  
    color:rgb(177, 171, 148)  
}
```

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(177, 171, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 171, 148) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 12.748, 98.113 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(177, 171, 148) }
```

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

```
.border{ border-color:rgb(177, 171, 148) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 171, 148)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 171, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 171, 148);  
box-shadow:4px 4px 4px 4px rgb(177, 171,  
148) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 12.748, 98.113 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 171, 148) }
```

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

```
.background{ background-color: rgb(177,  
171, 148) }
```

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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