

# Converting Colors

CIELCh(70, 36.763, 119.710)

Have a look what the booklet for  
CIELCh(70, 36.763, 119.710)  
contains.

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**Color**

**CIELCh(70, 36.749, 119.599)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9FB370
RGB	159, 179, 112
RGB Percent	62%, 70%, 44%
CMY	0.3767, 0.2983, 0.5610
CMYK	0.11, 0.00, 0.37, 0.30
HSL	78°, 31%, 57%
HSV	78°, 37%, 70%
XYZ	33.3156, 40.7494, 21.4220
YIQ	165.3820, 9.5870, -25.0770

# Conversions

## Conversions Part 2

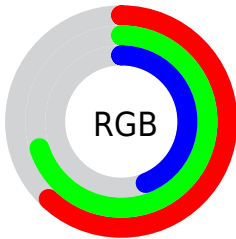
<b>Format</b>	<b>Color</b>
<b>RYB</b>	112, 179, 132
Decimal	10466160
CIELab	70.00, -18.15, 31.95
CIElCh	70, 36.749, 119.599
Yxy	40.7494, 0.3489, 0.4268
Android (android.graphics.Color)	4288656240 (0xFF9FB370)
YUV	165.3820, -26.3173, -5.5970
Hunter-Lab	63.8353, -18.5527, 24.7880

# Details

The CIELCh color **70, 36.749, 119.599** is a light color, and the websafe version is hex **999966**. A complement of this color would be **52, 39.689, 304.383**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **90, 36.681, 120.062**, and **50, 36.527, 119.810** is the 20% darker color. If you saturate the color by 10%, you get **69, 46.061, 119.078**, and if you desaturate by 10%, it is **71, 27.113, 120.171**.

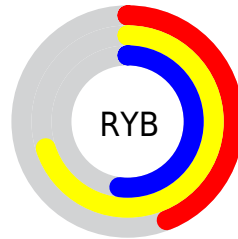
# Distribution



Red (62%)

Green (70%)

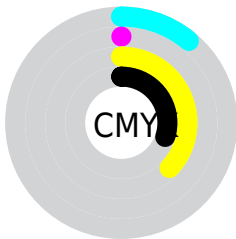
Blue (44%)



Red (44%)

Yellow (70%)

Blue (52%)

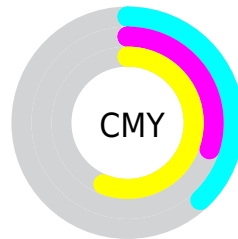


Cyan (11%)

Magenta (0%)

Yellow (37%)

Black (30%)



Cyan (38%)

Magenta (30%)


Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 70, 36.749, 119.599 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, 36.749, 119.599 by changing the saturation by 10% instead.





 70, 36.749,  
119.599


 70, 36.749,  
119.599


 100, 36.749,  
119.599


 60, 36.749,  
119.599


 90, 36.749,  
119.599

 50, 36.749,  
119.599

 40, 36.749,  
119.599

 30, 36.749,  
119.599

 20, 36.749,  
119.599

 10, 36.749,  
119.599

 0, 36.749, 119.599

70, 36.749,  
119.599

70, 36.749,  
119.599

69, 46.061,  
119.078

71, 27.113,  
120.171

69, 54.833,  
118.650

71, 17.292,  
120.756

68, 62.762,  
118.389

72, 7.382, 121.337

68, 69.444,  
118.391

73, 2.549, 301.871

67, 74.448,  
118.762

74, 12.456,  
302.414

67, 77.604,  
119.557

75, 22.304,  
302.913

67, 78.304,  
119.776

76, 32.071,  
303.378

77, 41.684,  
303.819

■ 78, 41.995,  
306.177

# Harmonies

# Complementary

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



70, 36.749, 119.599



52, 39.689, 304.383

# Rectangle

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



70, 36.749, 119.599



70, 36.749, 169.599



70, 36.749, 299.599



70, 36.749, 349.599

# Sweetspot

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



70, 36.750, 119.601



91, 13.481, 121.120



59, 23.685, 47.723



49, 9.131, 121.043



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



70, 36.750, 119.601



88, 54.087, 119.161



68, 41.749, 136.317



37, 5.608, 121.228



58, 69.686, 119.600



8, 13.860, 125.560



# Inverse Universe

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



52, 39.689, 304.383



60, 59.651, 305.118



55, 42.506, 319.922



35, 5.712, 302.291



20, 88.553, 308.441



1, 13.511, 299.166



# Previews

## White Background



This preview shows how the CIELCh color 70, 36.749, 119.599 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, 36.749, 119.599 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

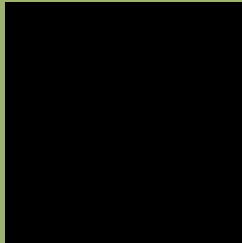
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 70, 36.749, 119.599**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 36.749, 119.599.



This preview shows how white text looks on a background with the CIELCh color 70, 36.749, 119.599.

# 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, 36.749, 119.599


### Protanopia

70, 34.032, 95.884

### Deuteranopia

70, 31.894, 73.891





**Tritanopia**  
70, 7.696, 285.539

# Trichromacy



**Original Color**  
70, 36.749, 119.599

**Protanomaly**  
70, 34.333, 105.273

**Deuteranomaly**  
70, 30.912, 91.929

**Tritanomaly**  
70, 8.769, 129.870

# Monochromacy



**Original Color**  
70, 36.749, 119.599

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 13.416, 120.684

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 36.749, 119.599 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(159, 179, 112)` looks like.

```
.text, #text, p{  
    color:rgb(159, 179, 112)  
}
```

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(159, 179, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 179, 112) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 36.749, 119.599 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(159, 179, 112) }
```

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

```
.border{ border-color:rgb(159, 179, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 179, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 179, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 179, 112);  
box-shadow:4px 4px 4px 4px rgb(159, 179,  
112) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 36.749, 119.599 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 179, 112) }
```

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

```
.background{ background-color: rgb(159,  
179, 112) }
```

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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