

# Converting Colors

CIELCh(70, 41.710, 138.197)

Have a look what the booklet for  
CIELCh(70, 41.710, 138.197)  
contains.

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# Color

**CIELCh(70, 41.749, 138.184)**

# Conversions

## Conversions Part 1

Format	Color
Hex	81B977
RGB	129, 185, 119
RGB Percent	51%, 73%, 47%
CMY	0.4937, 0.2741, 0.5330
CMYK	0.30, 0.00, 0.36, 0.27
HSL	111°, 32%, 60%
HSV	111°, 36%, 73%
XYZ	29.7738, 40.7494, 23.7784
YIQ	160.7320, -12.1900, -32.3980

# Conversions

## Conversions Part 2

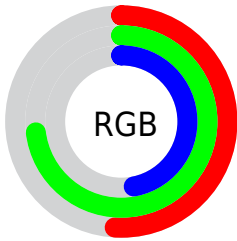
<b>Format</b>	<b>Color</b>
<b>RYB</b>	119, 185, 175
Decimal	8501623
CIELab	70.00, -31.12, 27.84
CIElCh	70, 41.749, 138.184
Yxy	40.7494, 0.3157, 0.4321
Android (android.graphics.Color)	4286691703 (0xFF81B977)
YUV	160.7320, -20.5739, -27.8290
Hunter-Lab	63.8353, -28.4565, 22.5993

# Details

The CIELCh color  $70, 41.749, 138.184$  is a dark color, and the websafe version is hex  $99CC99$ . A complement of this color would be  $58, 42.208, 321.850$ , and the grayscale version is  $66, 0.008, 296.813$ .

A 20% lighter version of the original color is  $90, 41.520, 138.421$ , and  $50, 41.880, 138.383$  is the 20% darker color. If you saturate the color by 10%, you get  $69, 53.037, 137.452$ , and if you desaturate by 10%, it is  $71, 30.116, 138.859$ .

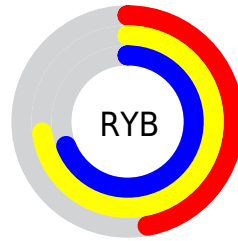
# Distribution



Red (51%)

Green (73%)

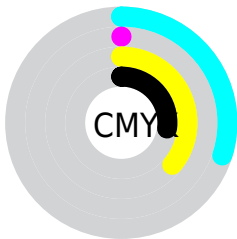
Blue (47%)



Red (47%)

Yellow (73%)

Blue (69%)

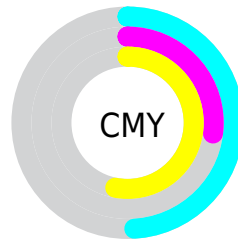


Cyan (30%)

Magenta (0%)

Yellow (36%)

Black (27%)



Cyan (49%)

Magenta (27%)


Yellow (53%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 41.749, 138.184 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, 41.749, 138.184 by changing the saturation by 10% instead.





 70, 41.749,  
138.184


 70, 41.749,  
138.184


 100, 41.749,  
138.184


 60, 41.749,  
138.184


 90, 41.749,  
138.184

 50, 41.749,  
138.184

 40, 41.749,  
138.184

 30, 41.749,  
138.184

 20, 41.749,  
138.184

 10, 41.749,  
138.184

 0, 41.749, 138.184

70, 41.749,  
138.184

70, 41.749,  
138.184

69, 53.037,  
137.452

71, 30.116,  
138.859

68, 63.695,  
136.693

73, 18.345,  
139.463

67, 73.357,  
135.973

74, 6.592, 140.007

67, 81.569,  
135.394

76, 5.030, 320.387

66, 87.834,  
135.082

78, 16.444,  
320.804

66, 91.805,  
135.134

80, 27.598,  
321.140

66, 93.067,  
135.160

82, 38.461,  
321.424

84, 43.760,  
325.838

■ 84, 43.804,  
325.942

# Harmonies

# Complementary

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



70, 41.749, 138.184



58, 42.208, 321.850

# Rectangle

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



70, 41.749, 138.184



70, 41.749, 188.184



70, 41.749, 318.184



70, 41.749, 8.184

# Sweetspot

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



70, 41.750, 138.185



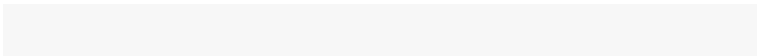
92, 15.864, 139.711



71, 30.001, 98.310



49, 10.660, 139.638



97, 0.011, 296.813



50, 0.007, 296.813





# Same Dimension

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



70, 41.750, 138.185



87, 61.744, 137.599



70, 34.377, 152.618



38, 6.572, 139.811



56, 81.727, 135.055



8, 18.241, 141.411



# Inverse Universe

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



58, 42.208, 321.850



69, 62.491, 322.178



58, 34.891, 338.391



36, 6.601, 320.646



32, 80.862, 322.513



2, 17.550, 318.321



# Previews

## White Background



This preview shows how the CIELCh color 70, 41.749, 138.184 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, 41.749, 138.184 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, 41.749, 138.184

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 41.749, 138.184.



This preview shows how white text looks on a background with the CIELCh color 70, 41.749, 138.184.

# 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

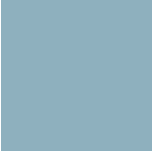


**Original Color**  
70, 41.749, 138.184

**Protanopia**  
70, 31.485, 95.312

**Deuteranopia**  
70, 27.241, 70.620





**Tritanopia**  
70, 13.736, 232.770

# Trichromacy



**Original Color**  
70, 41.749, 138.184

**Protanomaly**  
69, 32.511, 114.253

**Deuteranomaly**  
69, 26.584, 103.862

**Tritanomaly**  
70, 17.496, 169.916

# Monochromacy



**Original Color**  
70, 41.749, 138.184

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
67, 15.549, 140.297

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 41.749, 138.184 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(129, 185, 119)` looks like.

```
.text, #text, p{  
    color:rgb(129, 185, 119)  
}
```

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(129, 185, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 185, 119) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 41.749, 138.184 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(129, 185, 119) }
```

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

```
.border{ border-color:rgb(129, 185, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 185, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 185, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 185, 119);  
box-shadow:4px 4px 4px 4px rgb(129, 185,  
119) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 41.749, 138.184 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 185, 119) }
```

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

```
.background{ background-color: rgb(129,  
185, 119) }
```

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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