

# Converting Colors

CIELCh(70, 51.184, 105.022)

Have a look what the booklet for  
CIELCh(70, 51.184, 105.022)  
contains.

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**Color**

**CIELCh(70, 51.455, 104.980)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0B04D
RGB	176, 176, 77
RGB Percent	69%, 69%, 30%
CMY	0.3103, 0.3103, 0.6985
CMYK	0.00, 0.00, 0.56, 0.31
HSL	60°, 39%, 50%
HSV	60°, 56%, 69%
XYZ	34.7099, 40.7494, 13.0346
YIQ	164.7140, 31.7790, -30.7890

# Conversions

## Conversions Part 2

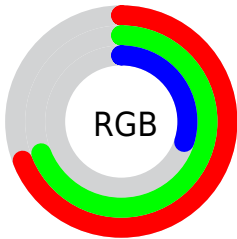
<b>Format</b>	<b>Color</b>
<b>RYB</b>	77, 176, 77
Decimal	11579469
CIELab	70.00, -13.30, 49.71
CIELCh	70, 51.455, 104.980
Yxy	40.7494, 0.3922, 0.4605
Android (android.graphics.Color)	4289769549 (0xFFB0B04D)
YUV	164.7140, -43.2430, 9.8978
Hunter-Lab	63.8353, -14.6538, 32.5782

# Details

The CIELCh color **70, 51.455, 104.980** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **38, 60.439, 298.655**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **90, 51.410, 104.574**, and **50, 51.715, 105.061** is the 20% darker color. If you saturate the color by 10%, you get **70, 58.993, 104.235**, and if you desaturate by 10%, it is **70, 43.081, 105.826**.

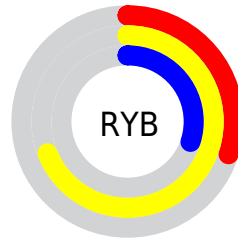
# Distribution



Red (69%)

Green (69%)

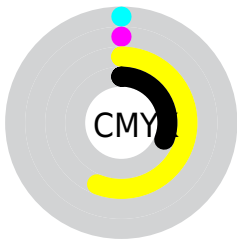
Blue (30%)



Red (30%)

Yellow (69%)

Blue (30%)

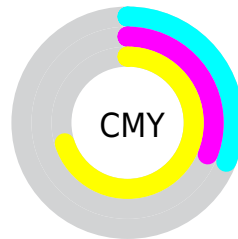


Cyan (0%)

Magenta (0%)

Yellow (56%)

Black (31%)



Cyan (31%)

Magenta (31%)


Yellow (70%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 51.455, 104.980 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, 51.455, 104.980 by changing the saturation by 10% instead.





 70, 51.455,  
104.980


 70, 51.455,  
104.980


 100, 51.455,  
104.980


 60, 51.455,  
104.980


 90, 51.455,  
104.980

 50, 51.455,  
104.980

 40, 51.455,  
104.980

 30, 51.455,  
104.980

 20, 51.455,  
104.980

 10, 51.455,  
104.980

 0, 51.455, 104.980

70, 51.455,  
104.980

70, 51.455,  
104.980

70, 58.993,  
104.235

70, 43.081,  
105.826

70, 65.286,  
103.623

70, 34.174,  
106.732

70, 69.897,  
103.183

71, 24.941,  
107.674

70, 72.574,  
102.931

71, 15.521,  
108.630

70, 73.343,  
102.859

72, 6.001, 109.579

72, 3.561, 290.546

72, 13.129,  
291.451

73, 22.675,  
292.334

■ 74, 32.181,  
293.181

# Harmonies

# Complementary

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



70, 51.455, 104.980



38, 60.439, 298.655

# Rectangle

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



70, 51.455, 104.980



70, 51.455, 154.980



70, 51.455, 284.980



70, 51.455, 334.980

# Sweetspot

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



70, 51.456, 104.983



90, 20.107, 108.533



46, 45.126, 26.386



48, 13.426, 108.347



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, 51.456, 104.983



89, 74.392, 104.042



67, 55.780, 126.559



37, 5.341, 109.296



60, 65.376, 102.859



7, 11.345, 110.183



# Inverse Universe

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



38, 60.439, 298.655



41, 92.326, 301.469



43, 60.626, 311.886



33, 5.457, 291.131



17, 90.271, 306.288



1, 11.347, 290.181



# Previews

## White Background



This preview shows how the CIELCh color 70, 51.455, 104.980 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, 51.455, 104.980 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, 51.455, 104.980

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 51.455, 104.980.



This preview shows how white text looks on a background with the CIELCh color 70, 51.455, 104.980.

# 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







**Tritanopia**  
70, 10.665, 338.557

# Trichromacy



**Original Color**  
70, 51.455, 104.980

**Protanomaly**  
70, 50.934, 99.028

**Deuteranomaly**  
70, 49.109, 89.490

**Tritanomaly**  
70, 16.161, 89.586

# Monochromacy



**Original Color**  
70, 51.455, 104.980

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 19.614, 108.151

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 51.455, 104.980 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(176, 176, 77)` looks like.

```
.text, #text, p{  
    color:rgb(176, 176, 77)  
}
```

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(176, 176, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 176, 77) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 51.455, 104.980 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(176, 176, 77) }
```

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

```
.border{ border-color:rgb(176, 176, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 176, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 176, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 176, 77);  
box-shadow:4px 4px 4px 4px rgb(176, 176,  
77) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 51.455, 104.980 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 176, 77) }
```

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

```
.background{ background-color: rgb(176,  
176, 77) }
```

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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