

# Converting Colors

CIELCh(70, 71.542, 58.499)

Have a look what the booklet for  
CIELCh(70, 71.542, 58.499) contains.

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# Color

**CIELCh(70, 71.542, 58.499)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8D39
RGB	255, 141, 57
RGB Percent	100%, 55%, 22%
CMY	0.0000, 0.4460, 0.7754
CMYK	0.00, 0.45, 0.78, 0.00
HSL	25°, 100%, 61%
HSV	25°, 78%, 100%
XYZ	51.6698, 40.7494, 9.0483
YIQ	165.5100, 94.9080, -1.9560

# Conversions

## Conversions Part 2

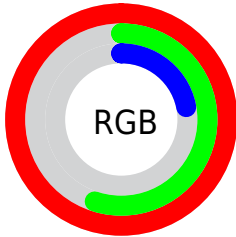
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 203, 57
Decimal	16747833
CIE Lab	70.00, 37.38, 61.00
CIE LCh	70, 71.542, 58.499
Yxy	40.7494, 0.5092, 0.4016
Android (android.graphics.Color)	4294937913 (0xFFFF8D39)
YUV	165.5100, -53.4954, 78.4827
Hunter-Lab	63.8353, 32.7704, 36.2806

# Details

The CIELCh color **70, 71.542, 58.499** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **67, 50.660, 265.880**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **83, 52.518, 77.174**, and **50, 70.029, 57.579** is the 20% darker color. If you saturate the color by 10%, you get **67, 80.597, 57.013**, and if you desaturate by 10%, it is **73, 61.231, 59.730**.

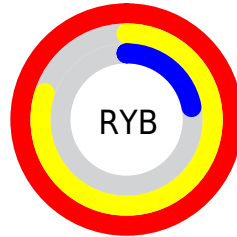
# Distribution



Red (100%)

Green (55%)

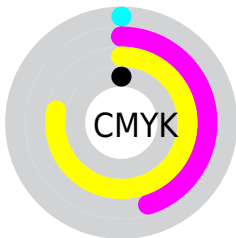
Blue (22%)



Red (100%)

Yellow (80%)

Blue (22%)

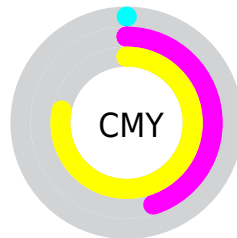


Cyan (0%)

Magenta (45%)

Yellow (78%)

Black (0%)



Cyan (0%)

Magenta (45%)

Yellow (78%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 71.542, 58.499 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, 71.542, 58.499 by changing the saturation by 10% instead.



 70, 71.542, 58.499

 70, 71.542, 58.499

 100, 71.542,  
58.499

 60, 71.542, 58.499

 90, 71.542, 58.499

 50, 71.542, 58.499

 40, 71.542, 58.499

 30, 71.542, 58.499

 20, 71.542, 58.499

 10, 71.542, 58.499

 0, 71.542, 58.499

 70, 71.542, 58.499

 70, 71.542, 58.499

 67, 80.597, 57.013

 73, 61.231, 59.730

64, 87.402, 54.652

77, 50.900, 60.761

63, 88.857, 54.044

81, 40.862, 61.770

85, 31.298, 62.799

89, 22.263, 63.852

93, 13.754, 64.920

97, 5.737, 65.961

100, 0.012,  
296.813

# Harmonies

# Complementary

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



70, 71.542, 58.499



67, 50.660, 265.880

# Rectangle

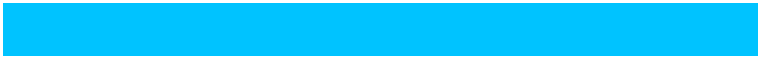
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70, 71.542, 58.499



70, 71.542, 108.499



70, 71.542, 238.499



70, 71.542, 288.499

# Sweetspot

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



70, 71.425, 58.566



90, 18.336, 64.337



59, 81.766, 348.775



47, 12.832, 63.951



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, 71.425, 58.566



65, 84.677, 55.846



93, 83.175, 98.728



51, 4.352, 65.765



48, 71.192, 54.739



15, 27.280, 54.506



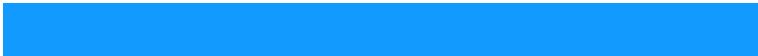


# Inverse Universe

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



67, 50.660, 265.880



62, 59.117, 273.215



43, 105.822, 301.195



51, 4.206, 248.075



46, 50.021, 275.772



14, 20.758, 268.698



# Previews

## White Background



This preview shows how the CIELCh color 70, 71.542, 58.499 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, 71.542, 58.499 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, 71.542, 58.499

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 71.542, 58.499.



This preview shows how white text looks on a background with the CIELCh color 70, 71.542, 58.499.

# 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, 71.542, 58.499

### Protanopia

70, 55.395, 95.762

### Deuteranopia

70, 62.880, 81.899



**Tritanopia**  
70, 48.969, 19.149



# Trichromacy



**Original Color**  
70, 71.542, 58.499

**Protanomaly**  
70, 57.390, 79.876

**Deuteranomaly**  
70, 64.546, 72.240

**Tritanomaly**  
70, 54.055, 38.264

# Monochromacy



**Original Color**  
70, 71.542, 58.499

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 24.582, 63.591

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 71.542, 58.499 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(255, 141, 57)` looks like.

```
.text, #text, p{  
    color:rgb(255, 141, 57)  
}
```

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(255, 141, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 141, 57) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 71.542, 58.499 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(255, 141, 57) }
```

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

```
.border{ border-color:rgb(255, 141, 57) }
```

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

Here you see how a box with a 4 pixel rgb(255, 141, 57) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 141, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 141, 57);  
box-shadow:4px 4px 4px 4px rgb(255, 141,  
57) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 71.542, 58.499 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 141, 57) }
```

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

```
.background{ background-color: rgb(255,  
141, 57) }
```

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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