

# Converting Colors

CIELCh(72, 71.476, 63.229)

Have a look what the booklet for  
CIELCh(72, 71.476, 63.229) contains.

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# Color

**CIELCh(72, 71.476, 63.229)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF9737
RGB	255, 151, 55
RGB Percent	100%, 59%, 22%
CMY	0.0001, 0.4079, 0.7844
CMYK	0.00, 0.41, 0.78, 0.00
HSL	29°, 100%, 61%
HSV	29°, 78%, 100%
XYZ	52.9851, 43.6590, 9.2465
YIQ	171.1520, 92.8000, -7.8080

# Conversions

## Conversions Part 2

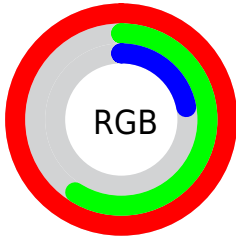
Format	Color
R <sub>Y</sub> B	255, 240, 55
Decimal	16750391
CIE Lab	72.00, 32.19, 63.81
CIE LCh	72, 71.476, 63.229
Yxy	43.6590, 0.5004, 0.4123
Android (android.graphics.Color)	4294940471 (0xFFFF9737)
YUV	171.1520, -57.2629, 73.5347
Hunter-Lab	66.0750, 27.5068, 37.9555

# Details

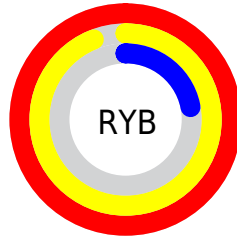
The CIELCh color **72, 71.476, 63.229** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **64, 56.038, 273.075**, and the grayscale version is **70, 0.009, 296.813**.

A 20% lighter version of the original color is **85, 54.896, 83.294**, and **52, 68.470, 61.785** is the 20% darker color. If you saturate the color by 10%, you get **69, 79.755, 61.303**, and if you desaturate by 10%, it is **75, 61.882, 64.728**.

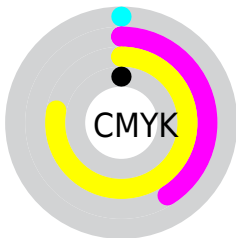
# Distribution



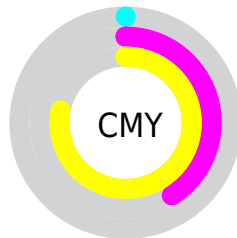
- Red (100%)
- Green (59%)
- Blue (22%)



- Red (100%)
- Yellow (94%)
- Blue (22%)



- Cyan (0%)
- Magenta (41%)
- Yellow (78%)
- Black (0%)



- Cyan (0%)
- Magenta (41%)
- Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 72, 71.476, 63.229 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 72, 71.476, 63.229 by changing the saturation by 10% instead.



72, 71.476, 63.229

72, 71.476, 63.229

100, 71.476,  
63.229

62, 71.476, 63.229

92, 71.476, 63.229

52, 71.476, 63.229

42, 71.476, 63.229

32, 71.476, 63.229

22, 71.476, 63.229

12, 71.476, 63.229

2, 71.476, 63.229

0, 71.476, 63.229

72, 71.476, 63.229

72, 71.476, 63.229

69, 79.755, 61.303

75, 61.882, 64.728

66, 85.563, 58.598

78, 51.913, 66.041

66, 86.375, 58.168

82, 42.060, 67.289

85, 32.550, 68.521

89, 23.467, 69.747

93, 14.827, 70.965

97, 6.613, 72.144

100, 0.013,  
261.565

# Harmonies

# Complementary

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



72, 71.476, 63.229



64, 56.038, 273.075

# Rectangle

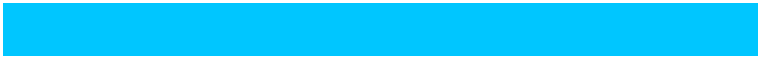
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



72, 71.476, 63.229



72, 71.476, 113.229



72, 71.476, 243.229



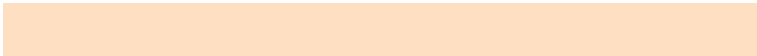
72, 71.476, 293.229

# Sweetspot

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



72, 71.474, 63.232



91, 19.582, 70.289



59, 80.343, 352.551



47, 13.577, 69.854



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



72, 71.474, 63.232



68, 83.317, 59.895



96, 86.823, 101.601



51, 4.470, 72.023



50, 69.287, 58.879



16, 27.038, 59.844





# Inverse Universe

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



64, 56.038, 273.075



58, 66.527, 280.223



40, 112.521, 302.897



51, 4.357, 254.515



42, 56.006, 282.159



12, 22.893, 275.450



# Previews

## White Background



This preview shows how the CIELCh color 72, 71.476, 63.229 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 72, 71.476, 63.229 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 72, 71.476, 63.229**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 72, 71.476, 63.229.



This preview shows how white text looks on a background with the CIELCh color 72, 71.476, 63.229.

# 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

72, 71.476, 63.229

### Protanopia

72, 59.239, 95.222

### Deuteranopia

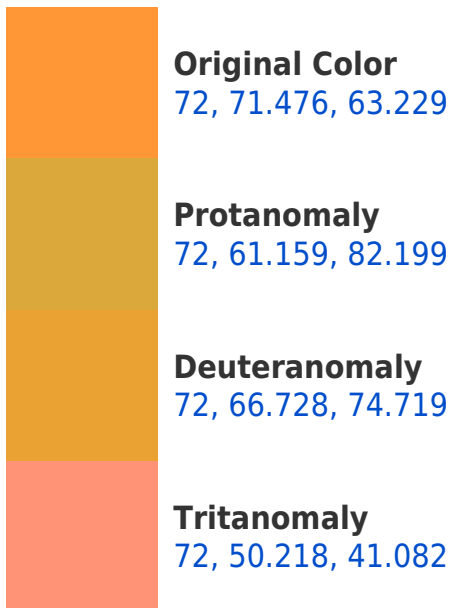
72, 65.375, 81.925



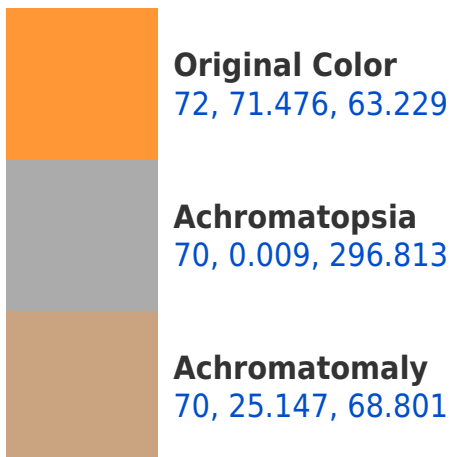
**Tritanopia**  
72, 44.824, 17.299



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 71.476, 63.229 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, 151, 55)` looks like.

```
.text, #text, p{  
    color:rgb(255, 151, 55)  
}
```

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, 151, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 151, 55) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 71.476, 63.229 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, 151, 55) }
```

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

```
.border{ border-color:rgb(255, 151, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 151, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 151, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 151, 55);  
box-shadow:4px 4px 4px 4px rgb(255, 151,  
55) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 71.476, 63.229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 151, 55) }
```

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

```
.background{ background-color: rgb(255,  
151, 55) }
```

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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