

# Converting Colors

CIELCh(81, 83.715, 44.424)

Have a look what the booklet for  
CIELCh(81, 83.715, 44.424) contains.

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# **Color**

**CIELCh(72, 57.658, 52.496)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF955E
RGB	255, 149, 94
RGB Percent	100%, 58%, 37%
CMY	0.0000, 0.4150, 0.6307
CMYK	0.00, 0.41, 0.63, 0.00
HSL	21°, 100%, 68%
HSV	21°, 63%, 100%
XYZ	54.1165, 43.6590, 16.2026
YIQ	174.4240, 80.8310, 5.3670

# Conversions

## Conversions Part 2

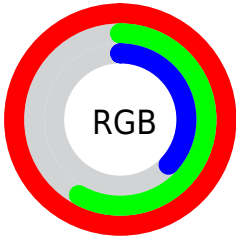
Format	Color
R <sub>Y</sub> B	255, 178, 94
Decimal	16749918
CIE Lab	72.00, 35.10, 45.74
CIE LCh	72, 57.658, 52.496
Yxy	43.6590, 0.4748, 0.3830
Android (android.graphics.Color)	4294939998 (0xFFFF955E)
YUV	174.4240, -39.6490, 70.6652
Hunter-Lab	66.0750, 30.5634, 31.7137

# Details

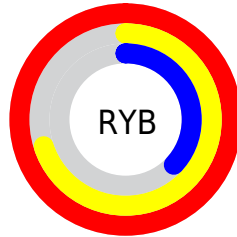
The CIELCh color **72, 57.658, 52.496** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **77, 38.866, 248.230**, and the grayscale version is **71, 0.009, 296.813**.

A 20% lighter version of the original color is **85, 37.307, 73.227**, and **52, 57.504, 52.690** is the 20% darker color. If you saturate the color by 10%, you get **68, 68.596, 52.076**, and if you desaturate by 10%, it is **76, 46.847, 53.012**.

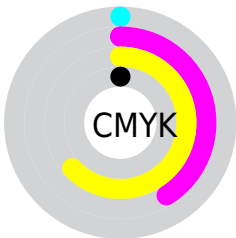
# Distribution



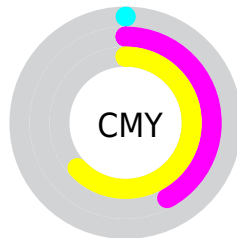
- Red (100%)
- Green (58%)
- Blue (37%)



- Red (100%)
- Yellow (70%)
- Blue (37%)



- Cyan (0%)
- Magenta (41%)
- Yellow (63%)
- Black (0%)



- Cyan (0%)
- Magenta (42%)
- Yellow (63%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 72, 57.658, 52.496 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, 57.658, 52.496 by changing the saturation by 10% instead.



72, 57.658, 52.496

72, 57.658, 52.496

100, 57.658,  
52.496

62, 57.658, 52.496

92, 57.658, 52.496

52, 57.658, 52.496

42, 57.658, 52.496

32, 57.658, 52.496

22, 57.658, 52.496

12, 57.658, 52.496

2, 57.658, 52.496

0, 57.658, 52.496

72, 57.658, 52.496

72, 57.658, 52.496

68, 68.596, 52.076

76, 46.847, 53.012

65, 79.266, 51.435

80, 36.665, 53.559

62, 88.306, 50.199

85, 27.126, 54.192

60, 93.071, 48.897

89, 18.237, 54.898

94, 9.965, 55.649

99, 2.258, 56.270

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.



72, 57.658, 52.496



77, 38.866, 248.230

# Rectangle

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



72, 57.658, 52.496



72, 57.658, 102.496



72, 57.658, 232.496



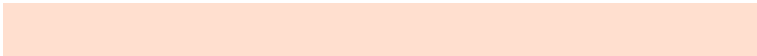
72, 57.658, 282.496

# Sweetspot

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



72, 57.580, 52.539



91, 14.796, 55.201



65, 75.387, 341.330



47, 10.290, 54.987



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, 57.580, 52.539



67, 71.797, 51.920



91, 66.956, 94.958



51, 4.278, 55.915



46, 74.491, 49.520



14, 28.036, 47.154





# Inverse Universe

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



77, 38.866, 248.230



73, 44.426, 253.038



55, 76.364, 293.974



51, 4.085, 237.752



50, 42.466, 263.678



16, 18.193, 256.427



# Previews

## White Background



This preview shows how the CIELCh color 72, 57.658, 52.496 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, 57.658, 52.496 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, 57.658, 52.496**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 72, 57.658, 52.496.



This preview shows how white text looks on a background with the CIELCh color 72, 57.658, 52.496.

# 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, 57.658, 52.496

### Protanopia

72, 39.592, 95.641

### Deuteranopia

72, 47.523, 78.706



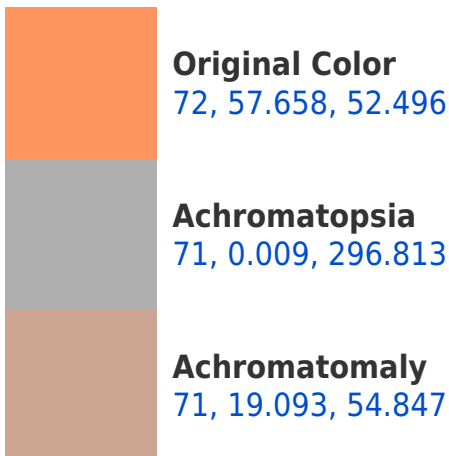
**Tritanopia**  
72, 44.824, 17.299



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 57.658, 52.496 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, 149, 94)` looks like.

```
.text, #text, p{  
    color:rgb(255, 149, 94)  
}
```

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, 149, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 149, 94) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 57.658, 52.496 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, 149, 94) }
```

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

```
.border{ border-color:rgb(255, 149, 94) }
```

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

Here you see how a box with a 4 pixel rgb(255, 149, 94) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 149, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 149, 94);  
box-shadow:4px 4px 4px 4px rgb(255, 149,  
94) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 57.658, 52.496 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 149, 94) }
```

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

```
.background{ background-color: rgb(255,  
149, 94) }
```

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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