

# Converting Colors

CIELCh(71, 65.972, 51.886)

Have a look what the booklet for  
CIELCh(71, 65.972, 51.886) contains.

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# Color

**CIELCh(70, 63.551, 52.844)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8D50
RGB	255, 141, 80
RGB Percent	100%, 55%, 31%
CMY	0.0012, 0.4481, 0.6872
CMYK	0.00, 0.45, 0.69, 0.00
HSL	21°, 100%, 66%
HSV	21°, 69%, 100%
XYZ	52.0515, 40.7494, 12.6639
YIQ	168.1320, 87.5250, 5.1970

# Conversions

## Conversions Part 2

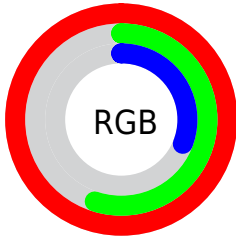
Format	Color
R <sub>Y</sub> B	255, 174, 80
Decimal	16747856
CIE Lab	70.00, 38.38, 50.65
CIE LCh	70, 63.551, 52.844
Yxy	40.7494, 0.4935, 0.3864
Android (android.graphics.Color)	4294937936 (0xFFFF8D50)
YUV	168.1320, -43.4491, 76.1832
Hunter-Lab	63.8353, 33.8377, 32.9225

# Details

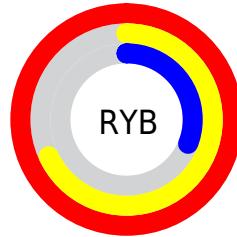
The CIELCh color **70, 63.551, 52.844** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **74, 41.617, 251.203**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **83, 42.800, 71.653**, and **50, 63.712, 52.883** is the 20% darker color. If you saturate the color by 10%, you get **66, 74.414, 52.259**, and if you desaturate by 10%, it is **74, 52.665, 53.354**.

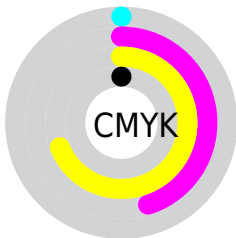
# Distribution



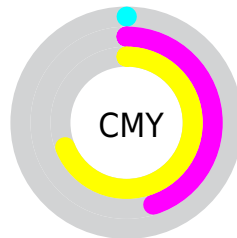
- Red (100%)
- Green (55%)
- Blue (31%)



- Red (100%)
- Yellow (68%)
- Blue (31%)



- Cyan (0%)
- Magenta (45%)
- Yellow (69%)
- Black (0%)



- Cyan (0%)
- Magenta (45%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 70, 63.551, 52.844 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, 63.551, 52.844 by changing the saturation by 10% instead.



70, 63.551, 52.844

70, 63.551, 52.844

100, 63.551,  
52.844

60, 63.551, 52.844

90, 63.551, 52.844

50, 63.551, 52.844

40, 63.551, 52.844

30, 63.551, 52.844

20, 63.551, 52.844

10, 63.551, 52.844

0, 63.551, 52.844

70, 63.551, 52.844

70, 63.551, 52.844

66, 74.414, 52.259

74, 52.665, 53.354

63, 84.296, 51.289

78, 42.202, 53.902

61, 91.748, 49.487

82, 32.335, 54.527

60, 92.640, 49.261

87, 23.111, 55.229

91, 14.517, 55.991

96, 6.512, 56.768

100, 0.107,  
205.592

# Harmonies

# Complementary

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



70, 63.551, 52.844



74, 41.617, 251.203

# Rectangle

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



70, 63.551, 52.844



70, 63.551, 102.844



70, 63.551, 232.844



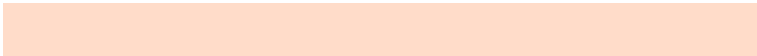
70, 63.551, 282.844

# Sweetspot

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



70, 63.549, 52.847



90, 16.469, 55.810



62, 79.907, 342.062



47, 11.259, 55.598



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, 63.549, 52.847



65, 77.944, 52.002



90, 71.827, 94.293



51, 4.279, 56.706



46, 74.220, 49.888



14, 27.962, 47.702





# Inverse Universe

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



74, 41.617, 251.203



70, 47.177, 256.716



52, 83.885, 295.539



51, 4.089, 238.589



50, 42.989, 264.759



15, 18.364, 257.496



# Previews

## White Background



This preview shows how the CIELCh color 70, 63.551, 52.844 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, 63.551, 52.844 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, 63.551, 52.844

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 63.551, 52.844.



This preview shows how white text looks on a background with the CIELCh color 70, 63.551, 52.844.

# 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, 63.551, 52.844

### Protanopia

70, 44.206, 96.026

### Deuteranopia

70, 52.876, 79.975



**Tritanopia**  
70, 48.969, 19.149



# Trichromacy



**Original Color**  
70, 63.551, 52.844

**Protanomaly**  
70, 47.213, 76.422

**Deuteranomaly**  
70, 55.052, 68.750

**Tritanomaly**  
70, 51.858, 33.673

# Monochromacy



**Original Color**  
70, 63.551, 52.844

**Achromatopsia**  
69, 0.009, 296.813

**Achromatomaly**  
68, 21.423, 54.481

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 63.551, 52.844 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, 80)` looks like.

```
.text, #text, p{  
    color:rgb(255, 141, 80)  
}
```

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, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 141, 80) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 63.551, 52.844 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, 80) }
```

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

```
.border{ border-color:rgb(255, 141, 80) }
```

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, 80)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 141, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 141, 80);  
box-shadow:4px 4px 4px 4px rgb(255, 141,  
80) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 63.551, 52.844 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, 80) }
```

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

```
.background{ background-color: rgb(255,  
141, 80) }
```

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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