

# Converting Colors

CIELCh(69, 68.734, 53.021)

Have a look what the booklet for  
CIELCh(69, 68.734, 53.021) contains.

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# **Color**

**CIELCh(69, 68.131, 53.129)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF8846
RGB	255, 136, 70
RGB Percent	100%, 53%, 27%
CMY	0.0000, 0.4681, 0.7271
CMYK	0.00, 0.47, 0.73, 0.00
HSL	21°, 100%, 64%
HSV	21°, 73%, 100%
XYZ	51.3618, 39.3444, 10.6147
YIQ	164.0570, 92.1100, 4.7020

# Conversions

## Conversions Part 2

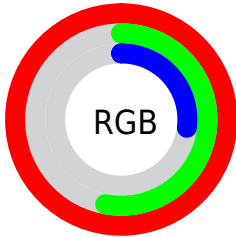
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 173, 70
Decimal	16746566
CIELab	69.00, 40.88, 54.50
CIELCh	69, 68.131, 53.129
Yxy	39.3444, 0.5069, 0.3883
Android (android.graphics.Color)	4294936646 (0xFFFF8846)
YUV	164.0570, -46.3701, 79.7570
Hunter-Lab	62.7251, 36.3940, 33.8742

# Details

The CIELCh color **69, 68.131, 53.129** is a light color, and the websafe version is hex **FF9966**. The color can be described as light washed orange. A complement of this color would be **73, 43.781, 253.925**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **82, 46.570, 70.943**, and **49, 67.456, 53.335** is the 20% darker color. If you saturate the color by 10%, you get **66, 78.403, 52.494**, and if you desaturate by 10%, it is **73, 56.942, 53.837**.

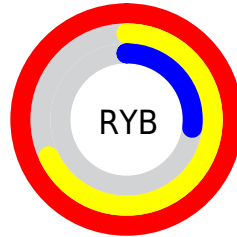
# Distribution



Red (100%)

Green (53%)

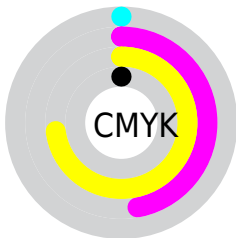
Blue (27%)



Red (100%)

Yellow (68%)

Blue (27%)

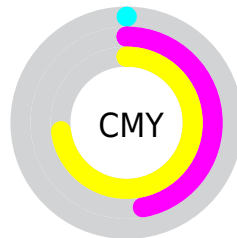


Cyan (0%)

Magenta (47%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (47%)

Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 68.131, 53.129 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 69, 68.131, 53.129 by changing the saturation by 10% instead.



69, 68.131, 53.129

69, 68.131, 53.129

100, 68.131,  
53.129

59, 68.131, 53.129

89, 68.131, 53.129

49, 68.131, 53.129

99, 68.131, 53.129

39, 68.131, 53.129

29, 68.131, 53.129

19, 68.131, 53.129

9, 68.131, 53.129

0, 68.131, 53.129

69, 68.131, 53.129

69, 68.131, 53.129

66, 78.403, 52.494

73, 56.942, 53.837

62, 87.380, 51.150

77, 46.315, 54.415

61, 92.334, 49.684

81, 36.222, 55.055

85, 26.753, 55.770

90, 17.916, 56.547

94, 9.678, 57.360

99, 1.988, 58.009

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.



69, 68.131, 53.129



73, 43.781, 253.925

# Rectangle

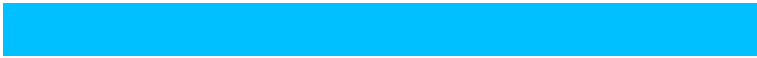
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



69, 68.131, 53.129



69, 68.131, 103.129



69, 68.131, 233.129



69, 68.131, 283.129

# Sweetspot

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



69, 67.844, 53.257



90, 17.314, 56.604



61, 81.985, 343.613



47, 11.747, 56.387



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



69, 67.844, 53.257



64, 82.549, 52.021



90, 75.994, 94.941



51, 4.282, 57.617



46, 73.909, 50.323



14, 27.879, 48.340





# Inverse Universe

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



73, 43.781, 253.925



68, 49.676, 260.296



48, 91.358, 297.411



51, 4.096, 239.551



49, 43.609, 265.977



15, 18.568, 258.707



# Previews

## White Background



This preview shows how the CIELCh color 69, 68.131, 53.129 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 69, 68.131, 53.129 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

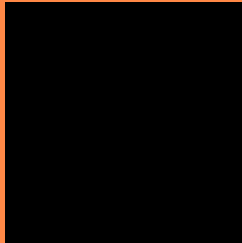
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 69, 68.131, 53.129

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 68.131, 53.129.



This preview shows how white text looks on a background with the CIELCh color 69, 68.131, 53.129.

# 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

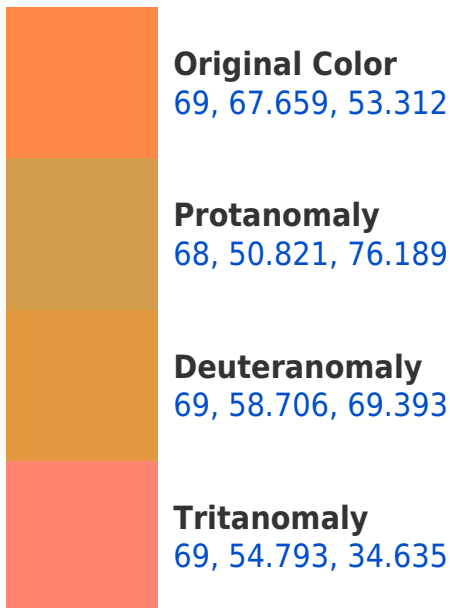




**Tritanopia**  
69, 51.260, 19.797



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 68.131, 53.129 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, 136, 70)` looks like.

```
.text, #text, p{  
    color:rgb(255, 136, 70)  
}
```

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, 136, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 136, 70) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 68.131, 53.129 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, 136, 70) }
```

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

```
.border{ border-color:rgb(255, 136, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 136, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 136, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 136, 70);  
box-shadow:4px 4px 4px 4px rgb(255, 136,  
70) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 68.131, 53.129 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 136, 70) }
```

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

```
.background{ background-color: rgb(255,  
136, 70) }
```

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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