

# Converting Colors

CIELCh(79, 94.315, 47.103)

Have a look what the booklet for  
CIELCh(79, 94.315, 47.103) contains.

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# Color

**CIELCh(69, 68.913, 54.774)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF8942
RGB	255, 137, 66
RGB Percent	100%, 54%, 26%
CMY	0.0018, 0.4642, 0.7426
CMYK	0.00, 0.46, 0.74, 0.00
HSL	23°, 100%, 63%
HSV	23°, 74%, 100%
XYZ	50.9353, 39.3444, 10.0075
YIQ	164.1880, 93.1190, 2.9350

# Conversions

## Conversions Part 2

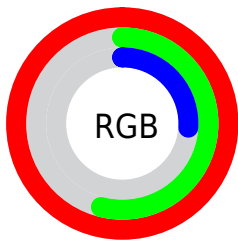
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 180, 66
Decimal	16746818
CIE Lab	69.00, 39.75, 56.29
CIE LCh	69, 68.913, 54.774
Yxy	39.3444, 0.5079, 0.3923
Android (android.graphics.Color)	4294936898 (0xFFFF8942)
YUV	164.1880, -48.4067, 79.6421
Hunter-Lab	62.7251, 35.1802, 34.4481

# Details

The CIELCh color **69, 68.913, 54.774** 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 **71, 45.482, 257.516**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **82, 47.989, 72.492**, and **49, 68.920, 54.860** is the 20% darker color. If you saturate the color by 10%, you get **66, 79.106, 53.782**, and if you desaturate by 10%, it is **73, 58.191, 55.528**.

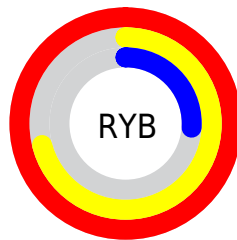
# Distribution



Red (100%)

Green (54%)

Blue (26%)



Red (100%)

Yellow (71%)

Blue (26%)

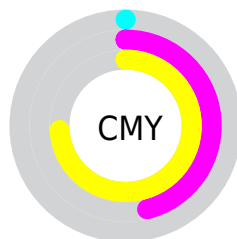


Cyan (0%)

Magenta (46%)

Yellow (74%)

Black (0%)



Cyan (0%)

Magenta (46%)

Yellow (74%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 68.913, 54.774 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, 68.913, 54.774 by changing the saturation by 10% instead.



69, 68.913, 54.774

69, 68.913, 54.774

100, 68.913,  
54.774

59, 68.913, 54.774

89, 68.913, 54.774

49, 68.913, 54.774

99, 68.913, 54.774

39, 68.913, 54.774

29, 68.913, 54.774

19, 68.913, 54.774

9, 68.913, 54.774

0, 68.913, 54.774

69, 68.913, 54.774

69, 68.913, 54.774

66, 79.106, 53.782

73, 58.191, 55.528

63, 87.459, 52.119

76, 47.640, 56.239

61, 91.191, 50.841

80, 37.563, 56.989

85, 28.074, 57.797

89, 19.190, 58.659

93, 10.888, 59.551

98, 3.120, 60.368

100, 0.159,  
203.568

# Harmonies

# Complementary

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



69, 68.913, 54.774



71, 45.482, 257.516

# Rectangle

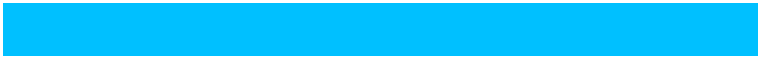
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



69, 68.913, 54.774



69, 68.913, 104.774



69, 68.913, 234.774



69, 68.913, 284.774

# Sweetspot

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



69, 68.911, 54.777



90, 17.329, 58.854



60, 82.014, 344.869



47, 11.753, 58.615



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, 68.911, 54.777



64, 83.559, 53.103



91, 77.905, 95.878



51, 4.293, 59.966



47, 73.111, 51.495



14, 27.679, 50.033



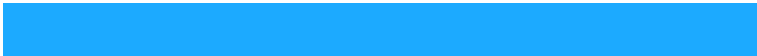


# Inverse Universe

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



71, 45.482, 257.516



67, 52.141, 264.322



47, 95.238, 298.511



51, 4.118, 242.023



48, 45.300, 268.998



15, 19.133, 261.740



# Previews

## White Background



This preview shows how the CIELCh color 69, 68.913, 54.774 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, 68.913, 54.774 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, 68.913, 54.774

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 68.913, 54.774.



This preview shows how white text looks on a background with the CIELCh color 69, 68.913, 54.774.

# 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, 50.891, 20.267



# Trichromacy



**Original Color**  
69, 68.913, 54.774

**Protanomaly**  
68, 52.557, 76.932

**Deuteranomaly**  
69, 60.555, 69.818

**Tritanomaly**  
69, 55.022, 36.139

# Monochromacy



**Original Color**  
69, 68.913, 54.774

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
67, 23.365, 57.886

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 68.913, 54.774 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, 137, 66)` looks like.

```
.text, #text, p{  
    color:rgb(255, 137, 66)  
}
```

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, 137, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 137, 66) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 68.913, 54.774 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, 137, 66) }
```

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

```
.border{ border-color:rgb(255, 137, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 137, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 137, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 137, 66);  
box-shadow:4px 4px 4px 4px rgb(255, 137,  
66) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 68.913, 54.774 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 137, 66) }
```

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

```
.background{ background-color: rgb(255,  
137, 66) }
```

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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