

# Converting Colors

CIELCh(74, 64.647, 69.924)

Have a look what the booklet for  
CIELCh(74, 64.647, 69.924) contains.

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# Color

**CIELCh(74, 64.688, 69.963)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F6A442
RGB	246, 164, 66
RGB Percent	96%, 64%, 26%
CMY	0.0340, 0.3557, 0.7400
CMYK	0.00, 0.33, 0.73, 0.03
HSL	33°, 91%, 61%
HSV	33°, 73%, 97%
XYZ	52.4423, 46.7039, 11.4494
YIQ	177.3460, 80.3300, -13.0940

# Conversions

## Conversions Part 2

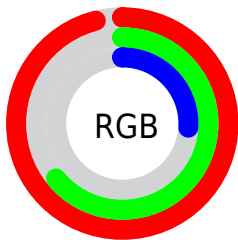
Format	Color
R <sub>Y</sub> B	217, 246, 66
Decimal	16163906
CIE Lab	74.00, 22.16, 60.77
CIE LCh	74, 64.688, 69.963
Yxy	46.7039, 0.4742, 0.4223
Android (android.graphics.Color)	4294353986 (0xFFFF6A442)
YUV	177.3460, -54.8936, 60.2096
Hunter-Lab	68.3403, 17.3800, 37.9050

# Details

The CIELCh color **74, 64.688, 69.963** 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 **61, 56.667, 277.560**, and the grayscale version is **73, 0.009, 296.813**.

A 20% lighter version of the original color is **89, 53.251, 89.363**, and **54, 64.837, 69.821** is the 20% darker color. If you saturate the color by 10%, you get **71, 72.873, 68.106**, and if you desaturate by 10%, it is **77, 55.543, 71.546**.

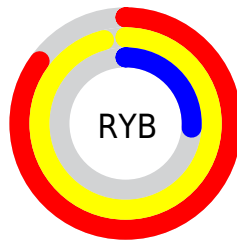
# Distribution



Red (96%)

Green (64%)

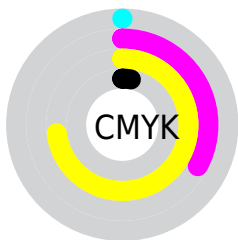
Blue (26%)



Red (85%)

Yellow (96%)

Blue (26%)

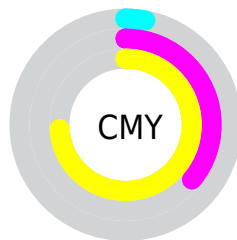


Cyan (0%)

Magenta (33%)

Yellow (73%)

Black (3%)



Cyan (3%)

Magenta (36%)

Yellow (74%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 74, 64.688, 69.963 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 74, 64.688, 69.963 by changing the saturation by 10% instead.



 74, 64.688, 69.963

 74, 64.688, 69.963

 100, 64.688,  
69.963

 64, 64.688, 69.963

 94, 64.688, 69.963

 54, 64.688, 69.963

 44, 64.688, 69.963

 34, 64.688, 69.963

 24, 64.688, 69.963

 14, 64.688, 69.963

 4, 64.688, 69.963

 0, 64.688, 69.963

 74, 64.688, 69.963

 74, 64.688, 69.963

71, 72.873, 68.106

77, 55.543, 71.546

69, 79.037, 65.690

80, 46.126, 72.996

67, 81.932, 63.652

83, 36.793, 74.386

86, 27.715, 75.744

89, 18.956, 77.072

93, 10.532, 78.364

96, 2.432, 79.517

99, 2.718, 209.288

99, 2.999, 199.436

# Harmonies

# Complementary

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



74, 64.688, 69.963



61, 56.667, 277.560

# Rectangle

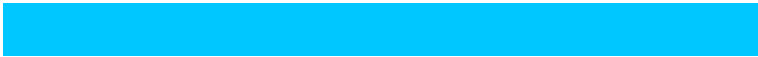
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



74, 64.688, 69.963



74, 64.688, 119.963



74, 64.688, 249.963



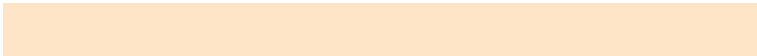
74, 64.688, 299.963

# Sweetspot

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



74, 64.687, 69.966



92, 18.536, 77.210



58, 73.362, 356.057



48, 12.523, 76.853



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



74, 64.687, 69.966



72, 78.352, 66.973



94, 82.893, 105.439



49, 4.517, 78.814



52, 66.225, 64.345



15, 24.710, 66.050





# Inverse Universe

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



61, 56.667, 277.560



56, 70.349, 283.825



41, 105.135, 303.052



48, 4.446, 261.388



38, 62.238, 288.144



10, 23.984, 281.248



# Previews

## White Background



This preview shows how the CIELCh color 74, 64.688, 69.963 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 74, 64.688, 69.963 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 74, 64.688, 69.963

## Background



This preview shows how black text looks on a background with the CIELCh color 74, 64.688, 69.963.



This preview shows how white text looks on a background with the CIELCh color 74, 64.688, 69.963.

# 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

74, 64.688, 69.963

### Protanopia

74, 57.878, 95.810

### Deuteranopia

74, 61.865, 80.948



**Tritanopia**  
74, 39.142, 13.974



# Trichromacy



**Original Color**  
74, 64.688, 69.963

**Protanomaly**  
74, 58.752, 85.556

**Deuteranomaly**  
74, 62.619, 76.759

**Tritanomaly**  
74, 42.648, 42.766

# Monochromacy



**Original Color**  
74, 64.688, 69.963

**Achromatopsia**  
73, 0.009, 296.813

**Achromatomaly**  
72, 23.245, 75.981

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 74, 64.688, 69.963 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(246, 164, 66)` looks like.

```
.text, #text, p{  
    color:rgb(246, 164, 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(246, 164, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 164, 66) }
```

## Border

The CSS property to change the border of an element to CIELCh 74, 64.688, 69.963 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(246, 164, 66) }
```

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

```
.border{ border-color:rgb(246, 164, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(246, 164, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 164, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 164, 66);  
box-shadow:4px 4px 4px 4px rgb(246, 164,  
66) }
```

# Background

The CSS property to change the background color of an element to CIELCh 74, 64.688, 69.963 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(246, 164, 66) }
```

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

```
.background{ background-color: rgb(246,  
164, 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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