

# Converting Colors

CIELCh(85, 86.668, 55.412)

Have a look what the booklet for  
CIELCh(85, 86.668, 55.412) contains.

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# Color

**CIELCh(77, 64.143, 69.345)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFAC4C
RGB	255, 172, 76
RGB Percent	100%, 67%, 30%
CMY	0.0000, 0.3253, 0.7019
CMYK	0.00, 0.33, 0.70, 0.00
HSL	32°, 100%, 65%
HSV	32°, 70%, 100%
XYZ	57.7499, 51.5317, 13.7434
YIQ	185.8730, 80.2840, -12.2600

# Conversions

## Conversions Part 2

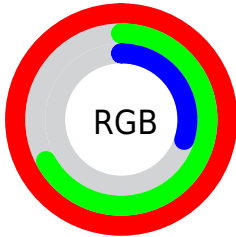
Format	Color
R <sub>Y</sub> B	231, 255, 76
Decimal	16755788
CIE Lab	77.00, 22.63, 60.02
CIE LCh	77, 64.143, 69.345
Yxy	51.5317, 0.4694, 0.4189
Android (android.graphics.Color)	4294945868 (0xFFFFAC4C)
YUV	185.8730, -54.1674, 60.6244
Hunter-Lab	71.7856, 17.9744, 38.8988

# Details

The CIELCh color **77, 64.143, 69.345** 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 **65, 55.277, 275.727**, and the grayscale version is **76, 0.009, 296.813**.

A 20% lighter version of the original color is **91, 51.094, 92.945**, and **57, 63.652, 70.046** is the 20% darker color. If you saturate the color by 10%, you get **74, 72.656, 67.958**, and if you desaturate by 10%, it is **80, 54.212, 71.223**.

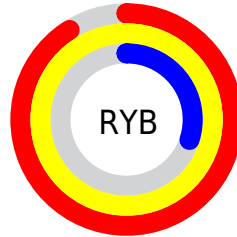
# Distribution



Red (100%)

Green (67%)

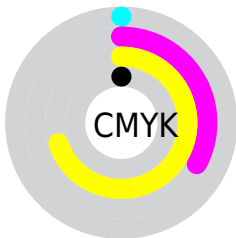
Blue (30%)



Red (91%)

Yellow (100%)

Blue (30%)

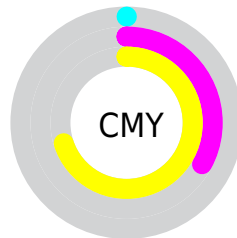


Cyan (0%)

Magenta (33%)

Yellow (70%)

Black (0%)



Cyan (0%)

Magenta (33%)

Yellow (70%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 64.143, 69.345 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 77, 64.143, 69.345 by changing the saturation by 10% instead.




 77, 64.143, 69.345

 77, 64.143, 69.345

 100, 64.143,  
69.345

 67, 64.143, 69.345

 97, 64.143, 69.345

 57, 64.143, 69.345

 47, 64.143, 69.345


 37, 64.143, 69.345

 27, 64.143, 69.345

 17, 64.143, 69.345

 7, 64.143, 69.345

 0, 64.143, 69.345

 77, 64.143, 69.345

 77, 64.143, 69.345

74, 72.656, 67.958

80, 54.212, 71.223

71, 79.792, 65.737

83, 44.505, 72.639

69, 84.359, 62.891

86, 34.969, 74.008

90, 25.738, 75.349

93, 16.858, 76.663

96, 8.332, 77.935

100, 0.142, 76.380

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.



77, 64.143, 69.345



65, 55.277, 275.727

# Rectangle

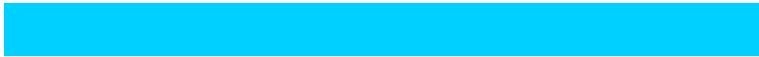
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77, 64.143, 69.345



77, 64.143, 119.345



77, 64.143, 249.345



77, 64.143, 299.345

# Sweetspot

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



77, 63.794, 69.704



93, 17.566, 76.558



61, 73.444, 355.331



48, 11.958, 76.198



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



77, 63.794, 69.704



73, 75.647, 67.185



97, 82.838, 105.581



51, 4.643, 78.019



53, 67.760, 63.588



17, 27.046, 65.496





# Inverse Universe

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



65, 55.277, 275.727



58, 66.137, 281.369



44, 103.781, 302.504



50, 4.565, 260.598



39, 62.675, 287.562



11, 25.349, 281.305



# Previews

## White Background



This preview shows how the CIELCh color 77, 64.143, 69.345 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 77, 64.143, 69.345 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 77, 64.143, 69.345

## Background



This preview shows how black text looks on a background with the CIELCh color 77, 64.143, 69.345.



This preview shows how white text looks on a background with the CIELCh color 77, 64.143, 69.345.

# 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

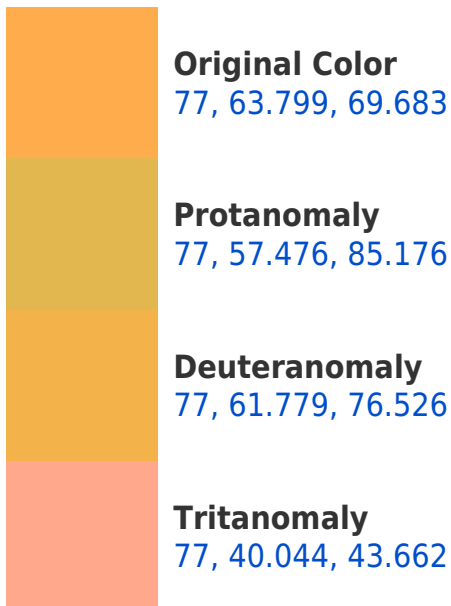




**Tritanopia**  
77, 35.561, 13.385



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 64.143, 69.345 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, 172, 76)` looks like.

```
.text, #text, p{  
    color:rgb(255, 172, 76)  
}
```

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, 172, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 172, 76) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 64.143, 69.345 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, 172, 76) }
```

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

```
.border{ border-color:rgb(255, 172, 76) }
```

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

Here you see how a box with a 4 pixel rgb(255, 172, 76) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 172, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 172, 76);  
box-shadow:4px 4px 4px 4px rgb(255, 172,  
76) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 64.143, 69.345 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 172, 76) }
```

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

```
.background{ background-color: rgb(255,  
172, 76) }
```

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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