

# Converting Colors

CIELCh(75, 66.025, 66.675)

Have a look what the booklet for  
CIELCh(75, 66.025, 66.675) contains.

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# Color

**CIELCh(75, 65.879, 66.713)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA446
RGB	255, 164, 70
RGB Percent	100%, 64%, 27%
CMY	0.0000, 0.3567, 0.7253
CMYK	0.00, 0.36, 0.73, 0.00
HSL	30°, 100%, 64%
HSV	30°, 73%, 100%
XYZ	55.6478, 48.2781, 12.1868
YIQ	180.4930, 84.4100, -9.9420

# Conversions

## Conversions Part 2

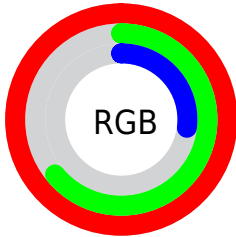
Format	Color
R <sub>Y</sub> B	249, 255, 70
Decimal	16753734
CIE Lab	75.00, 26.04, 60.51
CIE LCh	75, 65.879, 66.713
Yxy	48.2781, 0.4793, 0.4158
Android (android.graphics.Color)	4294943814 (0xFFFFFA446)
YUV	180.4930, -54.4730, 65.3426
Hunter-Lab	69.4824, 21.3645, 38.2386

# Details

The CIELCh color **75, 65.879, 66.713** 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, 54.536, 273.730**, and the grayscale version is **74, 0.009, 296.813**.

A 20% lighter version of the original color is **89, 51.405, 88.977**, and **55, 65.909, 66.826** is the 20% darker color. If you saturate the color by 10%, you get **72, 74.740, 64.981**, and if you desaturate by 10%, it is **78, 56.181, 68.205**.

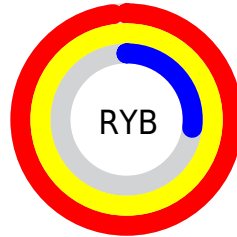
# Distribution



Red (100%)

Green (64%)

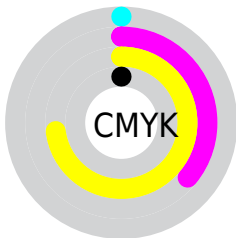
Blue (27%)



Red (98%)

Yellow (100%)

Blue (27%)

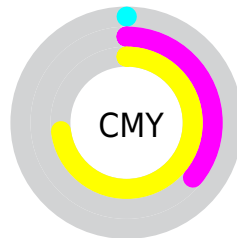


Cyan (0%)

Magenta (36%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (36%)

Yellow (73%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 75, 65.879, 66.713 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 75, 65.879, 66.713 by changing the saturation by 10% instead.



 75, 65.879, 66.713

 75, 65.879, 66.713

 100, 65.879,  
66.713

 65, 65.879, 66.713

 95, 65.879, 66.713

 55, 65.879, 66.713

 45, 65.879, 66.713

 35, 65.879, 66.713

 25, 65.879, 66.713

 15, 65.879, 66.713

 5, 65.879, 66.713

 0, 65.879, 66.713

 75, 65.879, 66.713

 75, 65.879, 66.713

72, 74.740, 64.981

78, 56.181, 68.205

69, 81.700, 62.660

81, 46.362, 69.567

67, 85.295, 60.470

85, 36.742, 70.883

88, 27.467, 72.180

92, 18.586, 73.460

95, 10.100, 74.710

99, 1.989, 75.781

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.



75, 65.879, 66.713



65, 54.536, 273.730

# Rectangle

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



75, 65.879, 66.713



75, 65.879, 116.713



75, 65.879, 246.713



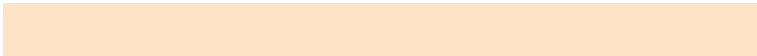
75, 65.879, 296.713

# Sweetspot

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



75, 65.863, 66.729



92, 18.124, 73.527



60, 75.953, 353.491



48, 12.255, 73.183



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



75, 65.863, 66.729



71, 78.165, 64.038



97, 84.719, 103.730



51, 4.550, 75.076



51, 68.462, 61.178



16, 27.009, 62.654





# Inverse Universe

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



65, 54.536, 273.730



59, 65.073, 279.922



43, 107.517, 302.547



51, 4.455, 257.624



41, 59.282, 284.988



12, 24.090, 278.499



# Previews

## White Background



This preview shows how the CIELCh color 75, 65.879, 66.713 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 75, 65.879, 66.713 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 75, 65.879, 66.713

## Background



This preview shows how black text looks on a background with the CIELCh color 75, 65.879, 66.713.



This preview shows how white text looks on a background with the CIELCh color 75, 65.879, 66.713.

# 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

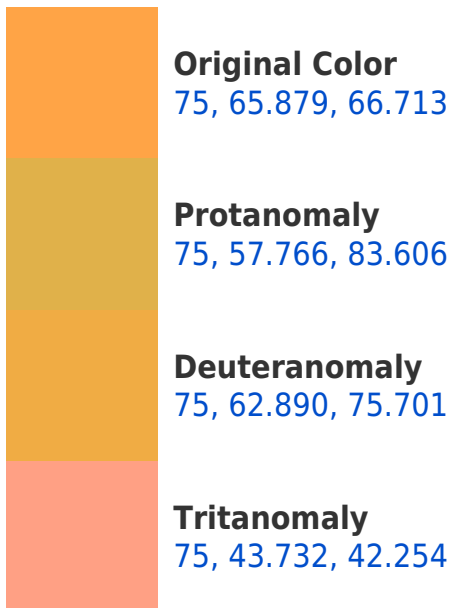




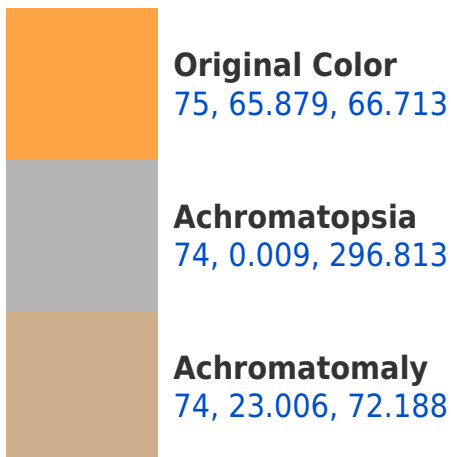
**Tritanopia**  
75, 39.045, 15.454



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 75, 65.879, 66.713 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, 164, 70)` looks like.

```
.text, #text, p{  
    color:rgb(255, 164, 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, 164, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 164, 70) }
```

## Border

The CSS property to change the border of an element to CIELCh 75, 65.879, 66.713 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, 164, 70) }
```

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

```
.border{ border-color:rgb(255, 164, 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, 164, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 164, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 164, 70);  
box-shadow:4px 4px 4px 4px rgb(255, 164,  
70) }
```

# Background

The CSS property to change the background color of an element to CIELCh 75, 65.879, 66.713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 164, 70) }
```

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

```
.background{ background-color: rgb(255,  
164, 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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