

# Converting Colors

CIELCh(75, 53.552, 58.209)

Have a look what the booklet for  
CIELCh(75, 53.552, 58.209) contains.

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# Color

**CIELCh(75, 53.568, 58.002)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA366
RGB	255, 163, 102
RGB Percent	100%, 64%, 40%
CMY	0.0010, 0.3617, 0.6008
CMYK	0.00, 0.36, 0.60, 0.00
HSL	24°, 100%, 70%
HSV	24°, 60%, 100%
XYZ	56.5872, 48.2781, 18.8501
YIQ	183.5540, 74.4130, 0.5330

# Conversions

## Conversions Part 2

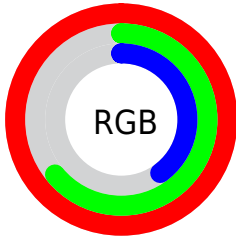
Format	Color
R <sub>Y</sub> B	255, 203, 102
Decimal	16753510
CIE Lab	75.00, 28.39, 45.43
CIE LCh	75, 53.568, 58.002
Yxy	48.2781, 0.4574, 0.3902
Android (android.graphics.Color)	4294943590 (0xFFFFA366)
YUV	183.5540, -40.2061, 62.6581
Hunter-Lab	69.4824, 23.7779, 32.5528

# Details

The CIELCh color **75, 53.568, 58.002** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **75, 39.501, 255.537**, and the grayscale version is **75, 0.009, 296.813**.

A 20% lighter version of the original color is **89, 36.524, 83.106**, and **55, 53.708, 58.405** is the 20% darker color. If you saturate the color by 10%, you get **71, 64.105, 57.123**, and if you desaturate by 10%, it is **79, 43.308, 58.870**.

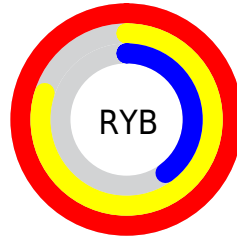
# Distribution



Red (100%)

Green (64%)

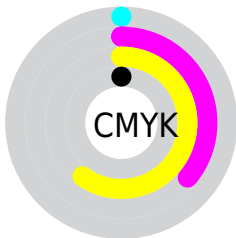
Blue (40%)



Red (100%)

Yellow (80%)

Blue (40%)

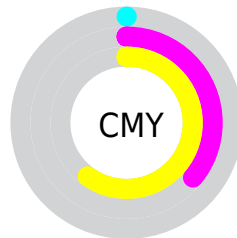


Cyan (0%)

Magenta (36%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (36%)

Yellow (60%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 75, 53.568, 58.002 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, 53.568, 58.002 by changing the saturation by 10% instead.



 75, 53.568, 58.002

 75, 53.568, 58.002

 100, 53.568,  
58.002

 65, 53.568, 58.002

 95, 53.568, 58.002

 55, 53.568, 58.002

 45, 53.568, 58.002

 35, 53.568, 58.002

 25, 53.568, 58.002

 15, 53.568, 58.002

 5, 53.568, 58.002

 0, 53.568, 58.002

 75, 53.568, 58.002

 75, 53.568, 58.002

71, 64.105, 57.123

79, 43.308, 58.870

68, 74.413, 56.082

83, 33.546, 59.767

65, 83.456, 54.567

87, 24.350, 60.706

62, 90.072, 52.286

91, 15.721, 61.678

96, 7.629, 62.653

100, 0.027, 43.181

100, 0.091,  
206.681

# Harmonies

# Complementary

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



75, 53.568, 58.002



75, 39.501, 255.537

# Rectangle

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



75, 53.568, 58.002



75, 53.568, 108.002



75, 53.568, 238.002



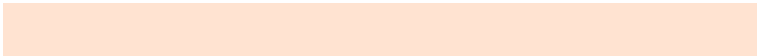
75, 53.568, 288.002

# Sweetspot

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



75, 53.567, 58.006



92, 14.038, 61.879



65, 70.403, 343.680



48, 9.847, 61.593



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, 53.567, 58.006



71, 66.220, 56.939



93, 66.640, 98.406



51, 4.315, 62.703



47, 72.193, 52.962



14, 27.473, 52.090



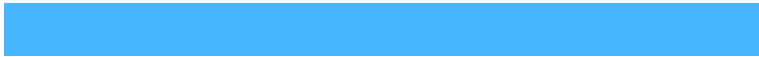


# Inverse Universe

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



75, 39.501, 255.537



71, 45.875, 259.952



55, 76.914, 295.414



51, 4.153, 244.889



47, 47.431, 272.310



14, 19.859, 265.115



# Previews

## White Background



This preview shows how the CIELCh color 75, 53.568, 58.002 looks on a white background.

## Color Contrast Check

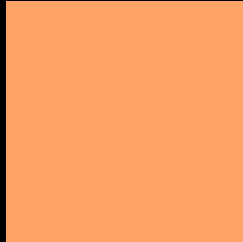
Large Text (above 18pt) WCAG AA × Fail

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, 53.568, 58.002 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

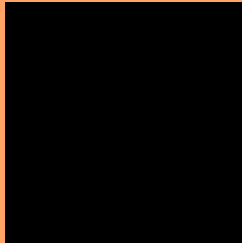
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 75, 53.568, 58.002

## Background



This preview shows how black text looks on a background with the CIELCh color 75, 53.568, 58.002.

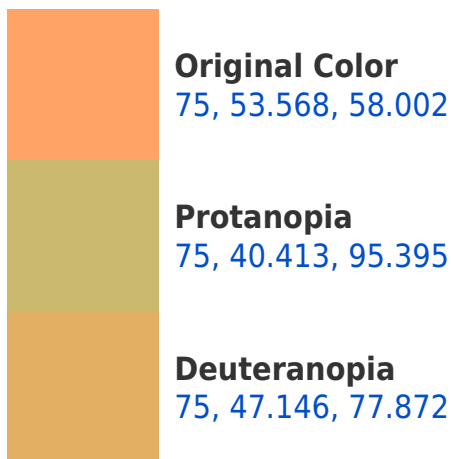


This preview shows how white text looks on a background with the CIELCh color 75, 53.568, 58.002.

# 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, 39.026, 14.676



# Trichromacy



**Original Color**  
75, 53.568, 58.002

**Protanomaly**  
75, 42.524, 79.201

**Deuteranomaly**  
75, 48.652, 69.851

**Tritanomaly**  
75, 41.044, 33.933

# Monochromacy



**Original Color**  
75, 53.568, 58.002

**Achromatopsia**  
74, 0.009, 296.813

**Achromatomaly**  
74, 18.316, 62.387

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 75, 53.568, 58.002 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, 163, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 163, 102)  
}
```

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, 163, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 163, 102) }
```

## Border

The CSS property to change the border of an element to CIELCh 75, 53.568, 58.002 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, 163, 102) }
```

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

```
.border{ border-color:rgb(255, 163, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 163, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 163, 102); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 163, 102); box-shadow:4px 4px 4px 4px rgb(255, 163, 102) }
```

# Background

The CSS property to change the background color of an element to CIELCh 75, 53.568, 58.002 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 163, 102) }
```

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

```
.background{ background-color: rgb(255,  
163, 102) }
```

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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