

# Converting Colors

CIELCh(75, 51.089, 67.808)

Have a look what the booklet for  
CIELCh(75, 51.089, 67.808) contains.

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# Color

**CIELCh(75, 51.324, 68.129)**

# Conversions

Conversions Part 1	
Format	Color
Hex	F2AA61
RGB	242, 170, 97
RGB Percent	95%, 67%, 38%
CMY	0.0526, 0.3347, 0.6209
CMYK	0.00, 0.30, 0.60, 0.05
HSL	30°, 84%, 66%
HSV	30°, 60%, 95%
XYZ	52.9293, 48.2781, 17.7555
YIQ	183.2060, 66.3450, -7.4390

# Conversions

## Conversions Part 2

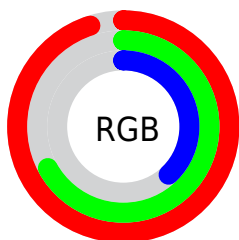
Format	Color
<a href="#">RYB</a>	<a href="#">240, 242, 97</a>
Decimal	<a href="#">15903329</a>
CIELab	<a href="#">75.00, 19.12, 47.63</a>
CIELCh	<a href="#">75, 51.324, 68.129</a>
Yxy	<a href="#">48.2781, 0.4449, 0.4058</a>
Android (android.graphics.Color)	<a href="#">4294093409</a> (0xFFFF2AA61)
YUV	<a href="#">183.2060, -42.4996, 51.5623</a>
Hunter-Lab	<a href="#">69.4824, 14.3808, 33.4868</a>

# Details

The CIELCh color **75, 51.324, 68.129** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **67, 43.259, 268.533**, and the grayscale version is **74, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 40.930, 89.600**, and **55, 51.254, 68.329** is the 20% darker color. If you saturate the color by 10%, you get **72, 60.702, 66.719**, and if you desaturate by 10%, it is **78, 41.940, 69.461**.

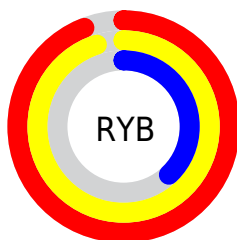
# Distribution



Red (95%)

Green (67%)

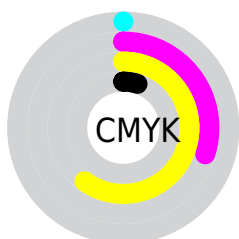
Blue (38%)



Red (94%)

Yellow (95%)

Blue (38%)

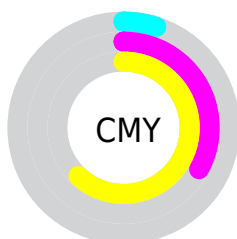


Cyan (0%)

Magenta (30%)

Yellow (60%)

Black (5%)



Cyan (5%)

Magenta (33%)

Yellow (62%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 75, 51.324, 68.129 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, 51.324, 68.129 by changing the saturation by 10% instead.



 75, 51.324, 68.129

 75, 51.324, 68.129

 100, 51.324,  
68.129

 65, 51.324, 68.129

 95, 51.324, 68.129

 55, 51.324, 68.129

 45, 51.324, 68.129

 35, 51.324, 68.129

 25, 51.324, 68.129

 15, 51.324, 68.129

 5, 51.324, 68.129

 0, 51.324, 68.129

 75, 51.324, 68.129

 75, 51.324, 68.129

 72, 60.702, 66.719

 78, 41.940, 69.461

 69, 69.547, 65.090

 81, 32.808, 70.755

 66, 76.907, 62.989

 85, 24.033, 72.034

 64, 81.986, 60.202

 88, 15.645, 73.297

 64, 81.991, 60.199

 92, 7.637, 74.523

 95, 0.018, 280.392

 99, 4.187, 209.109

 99, 4.620, 199.256

# Harmonies

# Complementary

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



75, 51.324, 68.129



67, 43.259, 268.533

# Rectangle

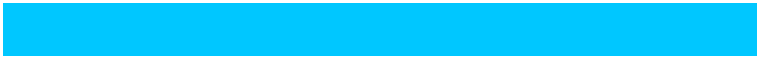
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



75, 51.324, 68.129



75, 51.324, 118.129



75, 51.324, 248.129



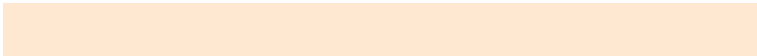
75, 51.324, 298.129

# Sweetspot

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



75, 51.323, 68.133



93, 14.651, 73.538



62, 63.388, 350.763



49, 10.251, 73.174



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, 51.323, 68.133



75, 65.355, 66.383



93, 70.143, 104.594



48, 4.311, 74.585



49, 66.500, 60.906



14, 23.415, 61.588



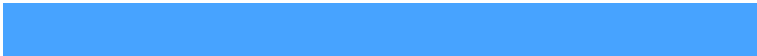


# Inverse Universe

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



67, 43.259, 268.533



65, 53.747, 273.015



49, 84.084, 299.717



48, 4.218, 257.109



39, 56.809, 284.398



10, 21.513, 276.718



# Previews

## White Background



This preview shows how the CIELCh color 75, 51.324, 68.129 looks on a white background.

## Color Contrast Check

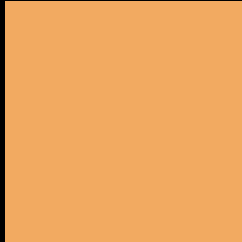
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 75, 51.324, 68.129 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, 51.324, 68.129

## Background



This preview shows how black text looks on a background with the CIELCh color 75, 51.324, 68.129.



This preview shows how white text looks on a background with the CIELCh color 75, 51.324, 68.129.

# 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

75, 51.324, 68.129

### Protanopia

75, 44.355, 95.899

### Deuteranopia

75, 48.959, 78.691

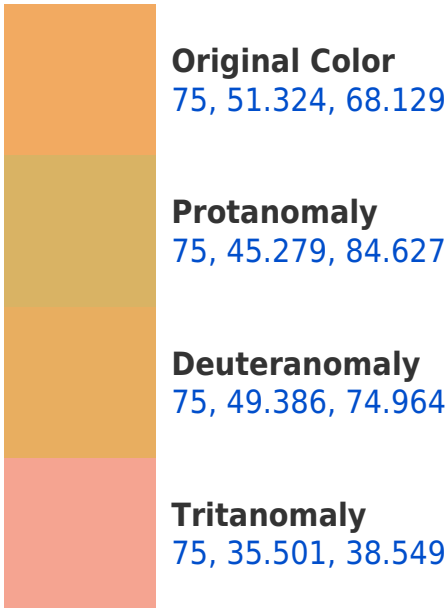


## Tritanopia

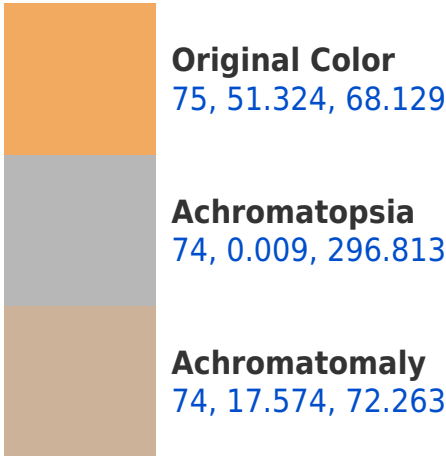
75, 34.160, 11.974



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 75, 51.324, 68.129 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(242, 170, 97)` looks like.

```
.text, #text, p{  
    color:rgb(242, 170, 97)  
}
```

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(242, 170, 97) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 170, 97) }
```

## Border

The CSS property to change the border of an element to CIELCh 75, 51.324, 68.129 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(242, 170, 97) }
```

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

```
.border{ border-color:rgb(242, 170, 97) }
```

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

Here you see how a box with a 4 pixel rgb(242, 170, 97) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 170, 97); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 170, 97);  
box-shadow:4px 4px 4px 4px rgb(242, 170,  
97) }
```

# Background

The CSS property to change the background color of an element to CIELCh 75, 51.324, 68.129 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 170, 97) }
```

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

```
.background{ background-color: rgb(242,  
170, 97) }
```

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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