

# Converting Colors

CIELCh(79, 71.767, 77.037)

Have a look what the booklet for  
CIELCh(79, 71.767, 77.037) contains.

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# Color

**CIELCh(79, 71.802, 77.051)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB638
RGB	255, 182, 56
RGB Percent	100%, 71%, 22%
CMY	0.0005, 0.2867, 0.7809
CMYK	0.00, 0.29, 0.78, 0.00
HSL	38°, 100%, 61%
HSV	38°, 78%, 100%
XYZ	58.6069, 54.9284, 11.2387
YIQ	189.4630, 83.9540, -23.7100

# Conversions

## Conversions Part 2

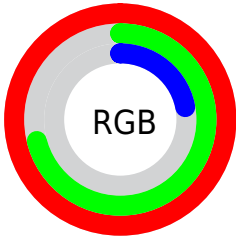
<b>Format</b>	<b>Color</b>
<b>RYB</b>	171, 255, 56
Decimal	16758328
CIELab	79.00, 16.09, 69.98
CIELCh	79, 71.802, 77.051
Yxy	54.9284, 0.4697, 0.4402
Android (android.graphics.Color)	4294948408 (0xFFFFB638)
YUV	189.4630, -65.7973, 57.4759
Hunter-Lab	74.1137, 11.4536, 42.8888

# Details

The CIELCh color **79, 71.802, 77.051** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light washed orange. A complement of this color would be **56, 72.236, 287.038**, and the grayscale version is **77, 0.009, 296.813**.

A 20% lighter version of the original color is **93, 62.657, 98.700**, and **59, 66.934, 75.712** is the 20% darker color. If you saturate the color by 10%, you get **77, 78.258, 74.974**, and if you desaturate by 10%, it is **81, 63.496, 78.802**.

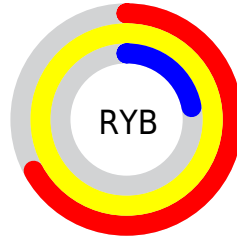
# Distribution



Red (100%)

Green (71%)

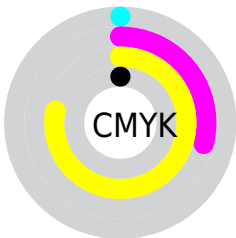
Blue (22%)



Red (67%)

Yellow (100%)

Blue (22%)

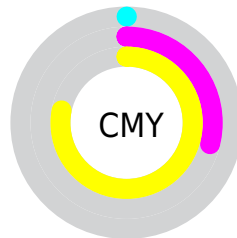


Cyan (0%)

Magenta (29%)

Yellow (78%)

Black (0%)



Cyan (0%)

Magenta (29%)

Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 79, 71.802, 77.051 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 79, 71.802, 77.051 by changing the saturation by 10% instead.



79, 71.802, 77.051

79, 71.802, 77.051

100, 71.802,  
77.051

69, 71.802, 77.051

99, 71.802, 77.051

59, 71.802, 77.051

49, 71.802, 77.051

39, 71.802, 77.051

29, 71.802, 77.051

19, 71.802, 77.051

9, 71.802, 77.051

0, 71.802, 77.051

79, 71.802, 77.051

79, 71.802, 77.051

77, 78.258, 74.974

81, 63.496, 78.802

75, 81.970, 72.346

84, 54.254, 80.377

74, 82.531, 71.815

86, 44.658, 81.860

89, 35.027, 83.288

92, 25.524, 84.673

95, 16.222, 86.014

98, 7.149, 87.296

100, 0.046,  
213.928

# Harmonies

# Complementary

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



79, 71.802, 77.051



56, 72.236, 287.038

# Rectangle

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



79, 71.802, 77.051



79, 71.802, 127.051



79, 71.802, 257.051



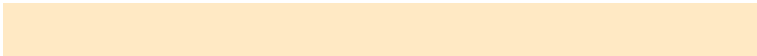
79, 71.802, 307.051

# Sweetspot

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



79, 71.801, 77.054



93, 20.785, 85.359



58, 76.988, 4.273



49, 14.452, 84.872



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



79, 71.801, 77.054



75, 80.824, 73.488



96, 89.306, 109.602



52, 5.046, 87.119



57, 66.474, 72.414



18, 27.692, 75.136





# Inverse Universe

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



56, 72.236, 287.038



48, 88.429, 293.169



41, 114.346, 304.988



50, 5.025, 269.672



34, 74.777, 294.719



9, 29.997, 289.289



# Previews

## White Background



This preview shows how the CIELCh color 79, 71.802, 77.051 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 79, 71.802, 77.051 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 79, 71.802, 77.051

## Background



This preview shows how black text looks on a background with the CIELCh color 79, 71.802, 77.051.



This preview shows how white text looks on a background with the CIELCh color 79, 71.802, 77.051.

# 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

79, 71.802, 77.051

### Protanopia

79, 67.577, 95.006

### Deuteranopia

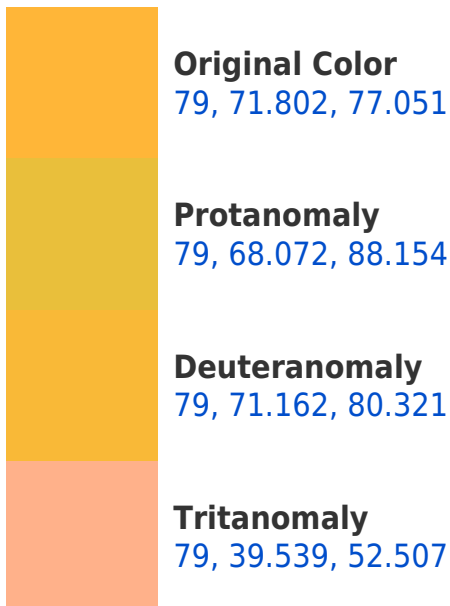
79, 71.033, 81.795



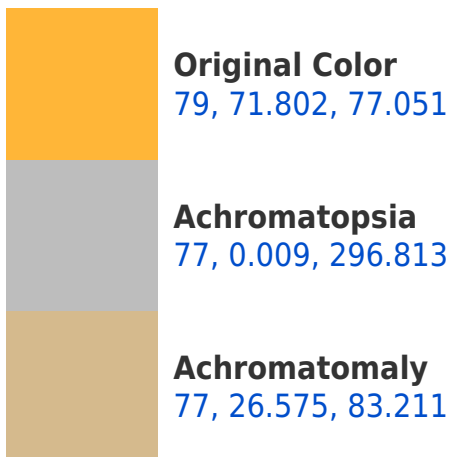
**Tritanopia**  
79, 31.738, 11.789



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 79, 71.802, 77.051 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, 182, 56)` looks like.

```
.text, #text, p{  
    color:rgb(255, 182, 56)  
}
```

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, 182, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 182, 56) }
```

## Border

The CSS property to change the border of an element to CIELCh 79, 71.802, 77.051 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, 182, 56) }
```

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

```
.border{ border-color:rgb(255, 182, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 182, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 182, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 182, 56);  
box-shadow:4px 4px 4px 4px rgb(255, 182,  
56) }
```

# Background

The CSS property to change the background color of an element to CIELCh 79, 71.802, 77.051 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 182, 56) }
```

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

```
.background{ background-color: rgb(255,  
182, 56) }
```

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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