

# Converting Colors

CIELCh(76, 72.604, 71.784)

Have a look what the booklet for  
CIELCh(76, 72.604, 71.784) contains.

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# Color

**CIELCh(76, 72.603, 71.771)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA933
RGB	255, 169, 51
RGB Percent	100%, 66%, 20%
CMY	0.0000, 0.3371, 0.7999
CMYK	0.00, 0.34, 0.80, 0.00
HSL	35°, 100%, 60%
HSV	35°, 80%, 100%
XYZ	56.0387, 49.8872, 9.8104
YIQ	181.2620, 89.1340, -18.4660

# Conversions

## Conversions Part 2

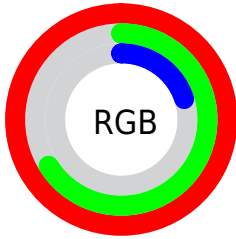
Format	Color
<a href="#">RYB</a>	<a href="#">200, 255, 51</a>
Decimal	<a href="#">16754995</a>
CIELab	<a href="#">76.00, 22.71, 68.96</a>
CIElCh	<a href="#">76, 72.603, 71.771</a>
Yxy	<a href="#">49.8872, 0.4842, 0.4310</a>
Android (android.graphics.Color)	<a href="#">4294945075 (0xFFFFA933)</a>
YUV	<a href="#">181.2620, -64.2192, 64.6682</a>
Hunter-Lab	<a href="#">70.6309, 18.0182, 41.2065</a>

# Details

The CIELCh color **76, 72.603, 71.771** 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 **58, 67.674, 283.459**, and the grayscale version is **74, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 60.164, 92.708**, and **56, 67.102, 69.859** is the 20% darker color. If you saturate the color by 10%, you get **73, 79.227, 69.538**, and if you desaturate by 10%, it is **79, 64.107, 73.586**.

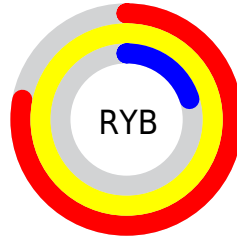
# Distribution



Red (100%)

Green (66%)

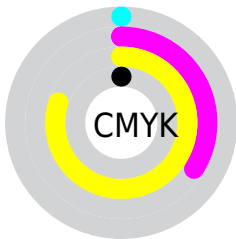
Blue (20%)



Red (78%)

Yellow (100%)

Blue (20%)

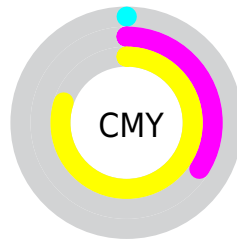


Cyan (0%)

Magenta (34%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (34%)

Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 76, 72.603, 71.771 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 76, 72.603, 71.771 by changing the saturation by 10% instead.



76, 72.603, 71.771

76, 72.603, 71.771

100, 72.603,  
71.771

66, 72.603, 71.771

96, 72.603, 71.771

56, 72.603, 71.771

46, 72.603, 71.771

36, 72.603, 71.771

26, 72.603, 71.771

16, 72.603, 71.771

6, 72.603, 71.771

0, 72.603, 71.771

76, 72.603, 71.771

76, 72.603, 71.771

73, 79.227, 69.538

79, 64.107, 73.586

71, 83.291, 66.668

81, 54.748, 75.171

71, 83.295, 66.665

84, 45.132, 76.649

87, 35.581, 78.071

90, 26.249, 79.454

94, 17.198, 80.800

97, 8.445, 82.096

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.



76, 72.603, 71.771



58, 67.674, 283.459

# Rectangle

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



76, 72.603, 71.771



76, 72.603, 121.771



76, 72.603, 251.771



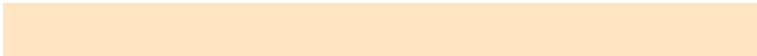
76, 72.603, 301.771

# Sweetspot

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



76, 72.595, 71.780



92, 20.793, 80.265



58, 78.628, 0.836



48, 14.372, 79.784



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



76, 72.595, 71.780



72, 81.862, 67.853



96, 90.175, 106.942



52, 4.803, 82.156



54, 66.976, 67.330



17, 27.229, 69.720





# Inverse Universe

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



58, 67.674, 283.459



51, 82.127, 290.099



39, 117.356, 304.666



50, 4.750, 264.746



37, 67.866, 290.957



10, 27.310, 285.055



# Previews

## White Background



This preview shows how the CIELCh color 76, 72.603, 71.771 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 76, 72.603, 71.771 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 76, 72.603, 71.771

## Background



This preview shows how black text looks on a background with the CIELCh color 76, 72.603, 71.771.



This preview shows how white text looks on a background with the CIELCh color 76, 72.603, 71.771.

# 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

76, 72.603, 71.771

### Protanopia

76, 65.847, 95.435

### Deuteranopia

76, 70.204, 81.944



**Tritanopia**  
76, 37.286, 14.043



# Trichromacy



**Original Color**  
76, 72.603, 71.771

**Protanomaly**  
76, 66.662, 86.370

**Deuteranomaly**  
76, 70.979, 78.268

**Tritanomaly**  
76, 44.265, 47.465

# Monochromacy



**Original Color**  
76, 72.603, 71.771

**Achromatopsia**  
74, 0.009, 296.813

**Achromatomaly**  
74, 26.668, 78.984

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 76, 72.603, 71.771 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, 169, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 169, 51)  
}
```

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, 169, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 169, 51) }
```

## Border

The CSS property to change the border of an element to CIELCh 76, 72.603, 71.771 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, 169, 51) }
```

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

```
.border{ border-color:rgb(255, 169, 51) }
```

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

Here you see how a box with a 4 pixel rgb(255, 169, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 169, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 169, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 169,  
51) }
```

# Background

The CSS property to change the background color of an element to CIELCh 76, 72.603, 71.771 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 169, 51) }
```

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

```
.background{ background-color: rgb(255,  
169, 51) }
```

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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