

# Converting Colors

CIELCh(74, 77.624, 69.434)

Have a look what the booklet for  
CIELCh(74, 77.624, 69.434) contains.

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# Color

**CIELCh(74, 77.323, 69.596)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA022
RGB	255, 160, 34
RGB Percent	100%, 63%, 13%
CMY	0.0000, 0.3713, 0.8650
CMYK	0.00, 0.37, 0.86, 0.00
HSL	34°, 100%, 57%
HSV	34°, 86%, 100%
XYZ	54.3029, 46.7039, 7.6984
YIQ	174.0410, 97.0660, -19.0460

# Conversions

## Conversions Part 2

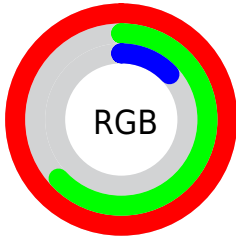
Format	Color
R <sub>Y</sub> B	201, 255, 34
Decimal	16752674
CIE Lab	74.00, 26.96, 72.47
CIE LCh	74, 77.323, 69.596
Yxy	46.7039, 0.4995, 0.4296
Android (android.graphics.Color)	4294942754 (0xFFFFA022)
YUV	174.0410, -69.0402, 71.0010
Hunter-Lab	68.3403, 22.2399, 41.1593

# Details

The CIELCh color **74, 77.323, 69.596** is a light color, and the websafe version is hex **FF9900**. The color can be described as light washed orange. A complement of this color would be **55, 72.477, 285.486**, and the grayscale version is **71, 0.009, 296.813**.

A 20% lighter version of the original color is **87, 63.628, 89.276**, and **54, 67.435, 65.873** is the 20% darker color. If you saturate the color by 10%, you get **71, 82.157, 66.997**, and if you desaturate by 10%, it is **77, 69.712, 71.748**.

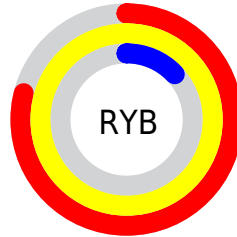
# Distribution



Red (100%)

Green (63%)

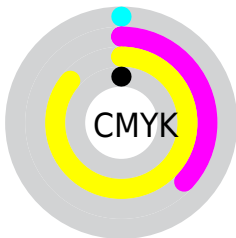
Blue (13%)



Red (79%)

Yellow (100%)

Blue (13%)

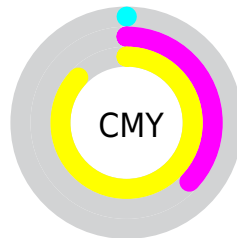


Cyan (0%)

Magenta (37%)

Yellow (86%)

Black (0%)



Cyan (0%)

Magenta (37%)

Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 74, 77.323, 69.596 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 74, 77.323, 69.596 by changing the saturation by 10% instead.



 74, 77.323, 69.596

 74, 77.323, 69.596

 100, 77.323,  
69.596

 64, 77.323, 69.596

 94, 77.323, 69.596

 54, 77.323, 69.596

 44, 77.323, 69.596

 34, 77.323, 69.596

 24, 77.323, 69.596

 14, 77.323, 69.596

 4, 77.323, 69.596

 0, 77.323, 69.596

 74, 77.323, 69.596

 74, 77.323, 69.596

71, 82.157, 66.997

77, 69.712, 71.748

71, 83.459, 65.957

79, 60.768, 73.450

82, 51.237, 74.981

85, 41.613, 76.428

88, 32.140, 77.828

91, 22.930, 79.194

95, 14.023, 80.522

98, 5.422, 81.782

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.



74, 77.323, 69.596



55, 72.477, 285.486

# Rectangle

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



74, 77.323, 69.596



74, 77.323, 119.596



74, 77.323, 249.596



74, 77.323, 299.596

# Sweetspot

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



74, 77.213, 69.694



92, 22.479, 79.261



56, 81.383, 3.278



48, 15.332, 78.792



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



74, 77.213, 69.694



71, 83.459, 65.957



96, 93.614, 106.856



52, 4.771, 81.417



54, 67.096, 66.629



17, 27.184, 68.946





# Inverse Universe

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



55, 72.477, 285.486



50, 84.601, 291.122



36, 124.759, 305.525



50, 4.714, 264.007



38, 66.901, 290.368



10, 26.942, 284.400



# Previews

## White Background



This preview shows how the CIELCh color 74, 77.323, 69.596 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 74, 77.323, 69.596 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 74, 77.323, 69.596

## Background



This preview shows how black text looks on a background with the CIELCh color 74, 77.323, 69.596.



This preview shows how white text looks on a background with the CIELCh color 74, 77.323, 69.596.

# 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

74, 77.323, 69.596

### Protanopia

74, 69.197, 95.327

### Deuteranopia

74, 73.908, 82.723



**Tritanopia**  
74, 40.809, 16.036



# Trichromacy



**Original Color**  
74, 77.323, 69.596

**Protanomaly**  
74, 70.092, 85.460

**Deuteranomaly**  
74, 74.617, 77.671

**Tritanomaly**  
74, 49.242, 47.823

# Monochromacy



**Original Color**  
74, 77.323, 69.596

**Achromatopsia**  
71, 0.009, 296.813

**Achromatomaly**  
71, 29.028, 77.895

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 74, 77.323, 69.596 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, 160, 34)` looks like.

```
.text, #text, p{  
    color:rgb(255, 160, 34)  
}
```

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, 160, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 160, 34) }
```

## Border

The CSS property to change the border of an element to CIELCh 74, 77.323, 69.596 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, 160, 34) }
```

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

```
.border{ border-color:rgb(255, 160, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 160, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 160, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 160, 34);  
box-shadow:4px 4px 4px 4px rgb(255, 160,  
34) }
```

# Background

The CSS property to change the background color of an element to CIELCh 74, 77.323, 69.596 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 160, 34) }
```

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

```
.background{ background-color: rgb(255,  
160, 34) }
```

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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