

# Converting Colors

CIELCh(72, 80.653, 72.294)

Have a look what the booklet for  
CIELCh(72, 80.653, 72.294) contains.

<b>CIELCh(72, 80.317, 72.353)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# **Color**

**CIELCh(72, 80.317, 72.353)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F69D00
RGB	246, 157, 0
RGB Percent	96%, 62%, 0%
CMY	0.0357, 0.3846, 1.0000
CMYK	0.00, 0.36, 1.00, 0.04
HSL	38°, 100%, 48%
HSV	38°, 100%, 96%
XYZ	50.0116, 43.6590, 5.7849
YIQ	165.7130, 103.4410, -29.9590

# Conversions

## Conversions Part 2

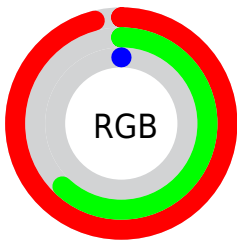
Format	Color
<a href="#">RYB</a>	<a href="#">139, 246, 0</a>
Decimal	<a href="#">16162048</a>
CIELab	<a href="#">72.00, 24.35, 76.54</a>
CIELCh	<a href="#">72, 80.317, 72.353</a>
Yxy	<a href="#">43.6590, 0.5029, 0.4390</a>
Android (android.graphics.Color)	<a href="#">4294352128 (0xFFFF69D00)</a>
YUV	<a href="#">165.7130, -81.6965, 70.4117</a>
Hunter-Lab	<a href="#">66.0750, 19.4740, 41.0617</a>

# Details

The CIELCh color **72, 80.317, 72.353** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **44, 92.567, 295.617**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **86, 69.308, 88.792**, and **52, 64.786, 67.514** is the 20% darker color. If you saturate the color by 10%, you get **72, 80.292, 72.349**, and if you desaturate by 10%, it is **74, 77.035, 75.003**.

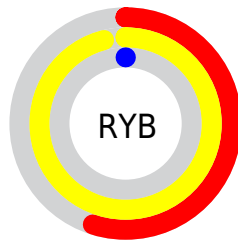
# Distribution



Red (96%)

Green (62%)

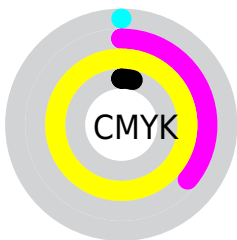
Blue (0%)



Red (55%)

Yellow (96%)

Blue (0%)

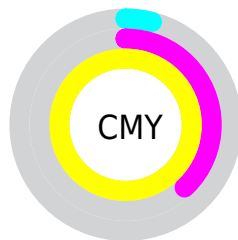


Cyan (0%)

Magenta (36%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (38%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 72, 80.317, 72.353 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 72, 80.317, 72.353 by changing the saturation by 10% instead.



72, 80.317, 72.353

72, 80.317, 72.353

100, 80.317,  
72.353

62, 80.317, 72.353

92, 80.317, 72.353

52, 80.317, 72.353

42, 80.317, 72.353

32, 80.317, 72.353

22, 80.317, 72.353

12, 80.317, 72.353

2, 80.317, 72.353

0, 80.317, 72.353

72, 80.317, 72.353

72, 80.317, 72.353

72, 80.292, 72.349

74, 77.035, 75.003

76, 71.237, 77.149

79, 63.451, 78.933

81, 54.604, 80.526

83, 45.317, 82.018

86, 35.942, 83.451

89, 26.659, 84.839

91, 17.555, 86.185

94, 8.663, 87.478

# Harmonies

# Complementary

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



72, 80.317, 72.353



44, 92.567, 295.617

# Rectangle

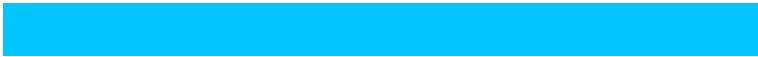
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



72, 80.317, 72.353



72, 80.317, 122.353



72, 80.317, 252.353



72, 80.317, 302.353

# Sweetspot

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



72, 80.292, 72.349



92, 27.458, 84.831



52, 83.427, 15.965



48, 18.825, 84.250



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



72, 80.292, 72.349



74, 82.537, 72.282



92, 95.476, 111.067



50, 4.902, 87.543



56, 65.133, 72.938



17, 25.418, 75.637





# Inverse Universe

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



44, 92.567, 295.617



46, 95.347, 295.691



32, 129.312, 306.703



48, 4.885, 270.080



33, 73.746, 294.949



8, 28.170, 288.913



# Previews

## White Background



This preview shows how the CIELCh color 72, 80.317, 72.353 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 72, 80.317, 72.353 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 72, 80.317, 72.353

## Background



This preview shows how black text looks on a background with the CIELCh color 72, 80.317, 72.353.



This preview shows how white text looks on a background with the CIELCh color 72, 80.317, 72.353.

# 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

72, 80.317, 72.353

### Protanopia

72, 72.406, 94.784

### Deuteranopia

72, 75.940, 83.129



**Tritanopia**  
72, 42.690, 15.977



# Trichromacy



**Original Color**  
72, 80.317, 72.353

**Protanomaly**  
72, 73.783, 86.064

**Deuteranomaly**  
72, 77.156, 79.028

**Tritanomaly**  
72, 53.502, 51.879

# Monochromacy



**Original Color**  
72, 80.317, 72.353

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
69, 34.185, 82.936

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 80.317, 72.353 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(246, 157, 0)` looks like.

```
.text, #text, p{  
    color:rgb(246, 157, 0)  
}
```

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(246, 157, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 157, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 80.317, 72.353 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(246, 157, 0) }
```

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

```
.border{ border-color:rgb(246, 157, 0) }
```

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

Here you see how a box with a 4 pixel rgb(246, 157, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 157, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 157, 0);  
box-shadow:4px 4px 4px 4px rgb(246, 157,  
0) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 80.317, 72.353 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(246, 157, 0) }
```

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

```
.background{ background-color: rgb(246,  
157, 0) }
```

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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