

# Converting Colors

CIELCh(77, 81.732, 77.327)

Have a look what the booklet for  
CIELCh(77, 81.732, 77.327) contains.

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# **Color**

**CIELCh(77, 81.769, 77.352)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FDAF04
RGB	253, 175, 4
RGB Percent	99%, 69%, 2%
CMY	0.0080, 0.3138, 0.9846
CMYK	0.00, 0.31, 0.98, 0.01
HSL	41°, 98%, 50%
HSV	41°, 98%, 99%
XYZ	55.8398, 51.5317, 7.1159
YIQ	178.8280, 101.3790, -36.6450

# Conversions

## Conversions Part 2

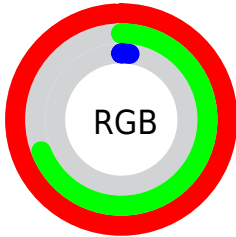
Format	Color
<a href="#">RYB</a>	<a href="#">118, 253, 4</a>
Decimal	<a href="#">16625412</a>
<a href="#">CIELab</a>	<a href="#">77.00, 17.90, 79.78</a>
<a href="#">CIElCh</a>	<a href="#">77, 81.769, 77.352</a>
<a href="#">Yxy</a>	<a href="#">51.5317, 0.4877, 0.4501</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4294815492 (0xFFFD AF04)</a>
<a href="#">YUV</a>	<a href="#">178.8280, -86.1902, 65.0488</a>
<a href="#">Hunter-Lab</a>	<a href="#">71.7856, 13.2247, 44.3727</a>

# Details

The CIELCh color **77, 81.769, 77.352** 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 **43, 100.668, 297.867**, and the grayscale version is **73, 0.009, 296.813**.

A 20% lighter version of the original color is **91, 72.336, 95.845**, and **57, 66.121, 73.758** is the 20% darker color. If you saturate the color by 10%, you get **77, 82.127, 76.973**, and if you desaturate by 10%, it is **79, 78.728, 79.713**.

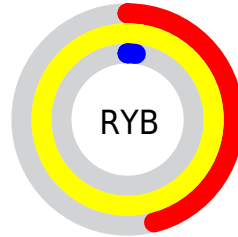
# Distribution



Red (99%)

Green (69%)

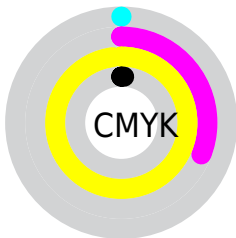
Blue (2%)



Red (46%)

Yellow (99%)

Blue (2%)

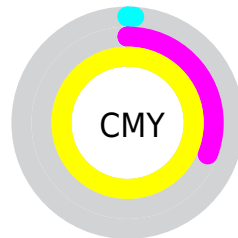


Cyan (0%)

Magenta (31%)

Yellow (98%)

Black (1%)



Cyan (1%)

Magenta (31%)

Yellow (98%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 81.769, 77.352 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 77, 81.769, 77.352 by changing the saturation by 10% instead.



 77, 81.769, 77.352

 77, 81.769, 77.352

 100, 81.769,  
77.352

 67, 81.769, 77.352

 97, 81.769, 77.352

 57, 81.769, 77.352

 47, 81.769, 77.352

 37, 81.769, 77.352

 27, 81.769, 77.352

 17, 81.769, 77.352

 7, 81.769, 77.352

 0, 81.769, 77.352

 77, 81.769, 77.352

 77, 81.769, 77.352

77, 82.127, 76.973

79, 78.728, 79.713

81, 72.895, 81.647

83, 65.010, 83.316

85, 55.972, 84.844

87, 46.397, 86.293

90, 36.645, 87.692

92, 26.911, 89.050

95, 17.294, 90.366

97, 7.838, 91.625

# Harmonies

# Complementary

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



77, 81.769, 77.352



43, 100.668, 297.867

# Rectangle

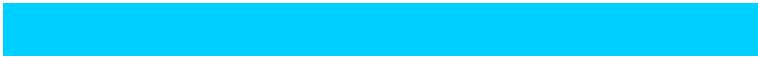
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77, 81.769, 77.352



77, 81.769, 127.352



77, 81.769, 257.352



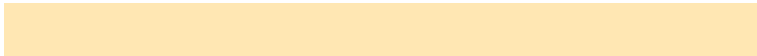
77, 81.769, 307.352

# Sweetspot

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



77, 81.767, 77.355



92, 28.603, 88.840



54, 86.374, 19.946



48, 19.579, 88.270



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



77, 81.767, 77.355



77, 82.627, 76.960



93, 98.217, 113.867



52, 5.317, 91.496



59, 66.591, 77.474



20, 28.379, 80.218





# Inverse Universe

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



43, 100.668, 297.867



43, 103.007, 298.376



34, 130.732, 306.985



50, 5.326, 273.975



32, 81.498, 297.772



8, 32.709, 292.807



# Previews

## White Background



This preview shows how the CIELCh color 77, 81.769, 77.352 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 77, 81.769, 77.352 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 77, 81.769, 77.352

## Background



This preview shows how black text looks on a background with the CIELCh color 77, 81.769, 77.352.



This preview shows how white text looks on a background with the CIELCh color 77, 81.769, 77.352.

# 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

77, 81.769, 77.352

### Protanopia

77, 77.045, 95.015

### Deuteranopia

77, 80.248, 83.129



**Tritanopia**  
77, 35.129, 14.076



# Trichromacy



**Original Color**  
77, 81.769, 77.352

**Protanomaly**  
77, 77.720, 88.215

**Deuteranomaly**  
77, 80.684, 81.177

**Tritanomaly**  
76, 48.758, 58.238

# Monochromacy



**Original Color**  
77, 81.769, 77.352

**Achromatopsia**  
73, 0.009, 296.813

**Achromatomaly**  
74, 35.896, 87.404

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 81.769, 77.352 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(253, 175, 4)` looks like.

```
.text, #text, p{  
    color:rgb(253, 175, 4)  
}
```

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(253, 175, 4) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(253, 175, 4) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 81.769, 77.352 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(253, 175, 4) }
```

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

```
.border{ border-color:rgb(253, 175, 4) }
```

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

Here you see how a box with a 4 pixel `rgb(253, 175, 4)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(253, 175, 4); -webkit-box-  
shadow:4px 4px 4px 4px rgb(253, 175, 4);  
box-shadow:4px 4px 4px 4px rgb(253, 175,  
4) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 81.769, 77.352 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(253, 175, 4) }
```

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

```
.background{ background-color: rgb(253,  
175, 4) }
```

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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