

# Converting Colors

CIELCh(70, 80.432, 67.952)

Have a look what the booklet for  
CIELCh(70, 80.432, 67.952) contains.

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# **Color**

**CIELCh(70, 80.301, 68.034)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F79306
RGB	247, 147, 6
RGB Percent	97%, 58%, 2%
CMY	0.0305, 0.4228, 0.9747
CMYK	0.00, 0.40, 0.97, 0.03
HSL	35°, 95%, 50%
HSV	35°, 97%, 97%
XYZ	48.9298, 40.7494, 5.4716
YIQ	160.8260, 104.8610, -22.6510

# Conversions

## Conversions Part 2

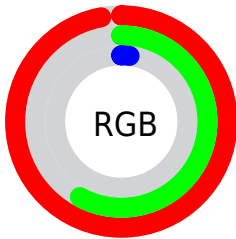
Format	Color
<a href="#">RYB</a>	<a href="#">177, 247, 6</a>
Decimal	<a href="#">16225030</a>
CIELab	<a href="#">70.00, 30.04, 74.47</a>
CIElCh	<a href="#">70, 80.301, 68.034</a>
Yxy	<a href="#">40.7494, 0.5142, 0.4283</a>
Android (android.graphics.Color)	<a href="#">4294415110 (0xFFFF79306)</a>
YUV	<a href="#">160.8260, -76.3292, 75.5746</a>
Hunter-Lab	<a href="#">63.8353, 25.1087, 39.6027</a>

# Details

The CIELCh color **70, 80.301, 68.034** 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 **48, 82.227, 291.053**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **84, 66.533, 83.826**, and **50, 66.149, 62.424** is the 20% darker color. If you saturate the color by 10%, you get **69, 81.233, 67.283**, and if you desaturate by 10%, it is **72, 75.845, 70.756**.

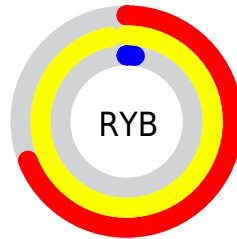
# Distribution



Red (97%)

Green (58%)

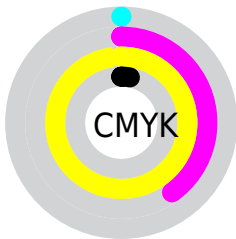
Blue (2%)



Red (69%)

Yellow (97%)

Blue (2%)

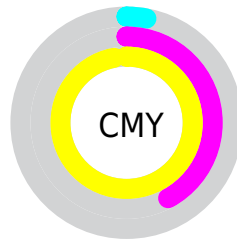


Cyan (0%)

Magenta (40%)

Yellow (97%)

Black (3%)



Cyan (3%)

Magenta (42%)

Yellow (97%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 80.301, 68.034 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 70, 80.301, 68.034 by changing the saturation by 10% instead.



 70, 80.301, 68.034

 70, 80.301, 68.034

 100, 80.301,  
68.034

 60, 80.301, 68.034

 90, 80.301, 68.034

 50, 80.301, 68.034

 40, 80.301, 68.034

 30, 80.301, 68.034

 20, 80.301, 68.034

 10, 80.301, 68.034

 0, 80.301, 68.034

 70, 80.301, 68.034

 70, 80.301, 68.034

 69, 81.233, 67.283

 72, 75.845, 70.756

75, 68.839, 72.847

77, 60.296, 74.578

80, 51.080, 76.130

83, 41.702, 77.593

86, 32.425, 79.005

89, 23.373, 80.379

92, 14.593, 81.714

95, 6.094, 82.987

# Harmonies

# Complementary

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



70, 80.301, 68.034



48, 82.227, 291.053

# Rectangle

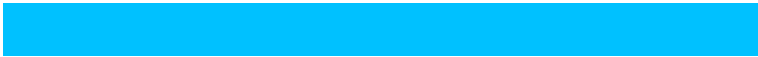
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70, 80.301, 68.034



70, 80.301, 118.034



70, 80.301, 248.034



70, 80.301, 298.034

# Sweetspot

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



70, 80.299, 68.037



91, 25.448, 80.153



53, 82.185, 9.770



47, 17.583, 79.568



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



70, 80.299, 68.037



71, 83.177, 67.220



93, 94.671, 107.976



50, 4.668, 82.730



53, 65.548, 67.950



16, 24.924, 70.210





# Inverse Universe

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



48, 82.227, 291.053



49, 86.781, 292.142



32, 129.076, 306.366



48, 4.621, 265.308



36, 67.118, 291.324



9, 25.732, 284.801



# Previews

## White Background



This preview shows how the CIELCh color 70, 80.301, 68.034 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 70, 80.301, 68.034 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 70, 80.301, 68.034

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 80.301, 68.034.



This preview shows how white text looks on a background with the CIELCh color 70, 80.301, 68.034.

# 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

70, 80.301, 68.034

### Protanopia

70, 70.138, 95.290

### Deuteranopia

70, 74.185, 83.279



**Tritanopia**  
70, 47.185, 18.053



# Trichromacy



**Original Color**  
70, 80.301, 68.034

**Protanomaly**  
70, 71.627, 84.326

**Deuteranomaly**  
70, 75.712, 77.257

**Tritanomaly**  
70, 56.470, 48.016

# Monochromacy



**Original Color**  
70, 80.301, 68.034

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
67, 32.383, 78.144

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 80.301, 68.034 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(247, 147, 6)` looks like.

```
.text, #text, p{  
    color:rgb(247, 147, 6)  
}
```

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(247, 147, 6) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 147, 6) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 80.301, 68.034 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(247, 147, 6) }
```

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

```
.border{ border-color:rgb(247, 147, 6) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 147, 6)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 147, 6); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 147, 6);  
box-shadow:4px 4px 4px 4px rgb(247, 147,  
6) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 80.301, 68.034 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 147, 6) }
```

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

```
.background{ background-color: rgb(247,  
147, 6) }
```

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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