

# Converting Colors

CIELCh(68, 84.745, 61.639)

Have a look what the booklet for  
CIELCh(68, 84.745, 61.639) contains.

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# **Color**

**CIELCh(68, 84.834, 61.597)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8500
RGB	255, 133, 0
RGB Percent	100%, 52%, 0%
CMY	0.0006, 0.4789, 1.0000
CMYK	0.00, 0.48, 1.00, 0.00
HSL	31°, 100%, 50%
HSV	31°, 100%, 100%
XYZ	49.5534, 37.9720, 4.7096
YIQ	154.3160, 115.4050, -15.4990

# Conversions

## Conversions Part 2

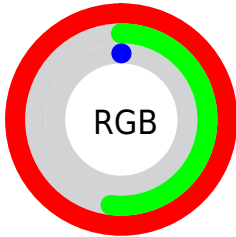
Format	Color
R <sub>Y</sub> B	234, 255, 0
Decimal	16745728
CIE Lab	68.00, 40.35, 74.62
CIE LCh	68, 84.834, 61.597
Yxy	37.9720, 0.5373, 0.4117
Android (android.graphics.Color)	4294935808 (0xFFFF8500)
YUV	154.3160, -76.0778, 88.2999
Hunter-Lab	61.6215, 35.7047, 38.6036

# Details

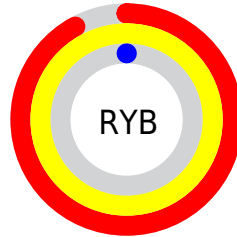
The CIELCh color **68, 84.834, 61.597** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **53, 76.867, 287.032**, and the grayscale version is **64, 0.008, 296.813**.

A 20% lighter version of the original color is **80, 65.858, 77.528**, and **48, 71.150, 54.688** is the 20% darker color. If you saturate the color by 10%, you get **68, 84.799, 61.586**, and if you desaturate by 10%, it is **71, 79.896, 64.463**.

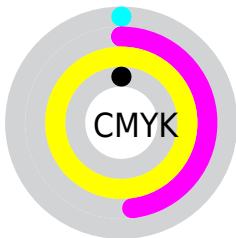
# Distribution



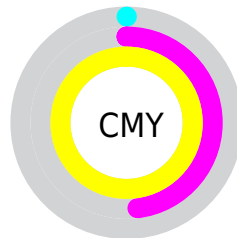
- Red (100%)
- Green (52%)
- Blue (0%)



- Red (92%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (48%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (48%)
- Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 84.834, 61.597 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 68, 84.834, 61.597 by changing the saturation by 10% instead.



 68, 84.834, 61.597

 68, 84.834, 61.597

 100, 84.834,  
61.597

 58, 84.834, 61.597

 88, 84.834, 61.597

 48, 84.834, 61.597

 98, 84.834, 61.597

 38, 84.834, 61.597

 28, 84.834, 61.597

 18, 84.834, 61.597

 8, 84.834, 61.597

 0, 84.834, 61.597

 68, 84.834, 61.597

 68, 84.834, 61.597

 68, 84.799, 61.586

 71, 79.896, 64.463

73, 72.512, 66.640

76, 63.482, 68.339

79, 53.806, 69.816

83, 44.062, 71.197

86, 34.533, 72.537

89, 25.340, 73.854

93, 16.524, 75.148

96, 8.082, 76.402

# Harmonies

# Complementary

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



68, 84.834, 61.597



53, 76.867, 287.032

# Rectangle

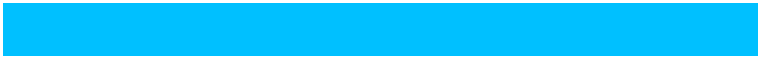
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



68, 84.834, 61.597



68, 84.834, 111.597



68, 84.834, 241.597



68, 84.834, 291.597

# Sweetspot

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



68, 84.799, 61.586



89, 25.353, 73.854



55, 84.448, 4.574



46, 17.458, 73.301



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



68, 84.799, 61.586



68, 84.838, 61.585



97, 96.895, 103.906



51, 4.592, 76.462



52, 68.119, 62.289



16, 27.018, 63.976





# Inverse Universe

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



53, 76.867, 287.032



53, 76.904, 287.033



32, 133.683, 306.320



50, 4.505, 259.027



40, 60.850, 286.218



11, 24.669, 279.836



# Previews

## White Background



This preview shows how the CIELCh color 68, 84.834, 61.597 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 68, 84.834, 61.597 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 68, 84.834, 61.597

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 84.834, 61.597.



This preview shows how white text looks on a background with the CIELCh color 68, 84.834, 61.597.

# 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

68, 84.834, 61.597

### Protanopia

68, 68.031, 95.451

### Deuteranopia

68, 72.421, 83.439



**Tritanopia**  
68, 53.202, 20.890



# Trichromacy



**Original Color**  
68, 84.834, 61.597

**Protanomaly**  
68, 70.682, 81.111

**Deuteranomaly**  
68, 75.304, 74.528

**Tritanomaly**  
68, 63.701, 45.502

# Monochromacy



**Original Color**  
68, 84.834, 61.597

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
64, 33.744, 70.965

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 84.834, 61.597 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, 133, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 133, 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(255, 133, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 133, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 84.834, 61.597 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, 133, 0) }
```

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

```
.border{ border-color:rgb(255, 133, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 133, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 133, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 133, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 133,  
0) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 84.834, 61.597 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 133, 0) }
```

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

```
.background{ background-color: rgb(255,  
133, 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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