

# Converting Colors

CIELCh(68, 90.429, 57.468)

Have a look what the booklet for  
CIELCh(68, 90.429, 57.468) contains.

<b>CIELCh(66, 85.974, 58.982)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIELCh(66, 85.974, 58.982)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FD7C00
RGB	253, 124, 0
RGB Percent	99%, 49%, 0%
CMY	0.0060, 0.5146, 1.0000
CMYK	0.00, 0.51, 1.00, 0.01
HSL	29°, 100%, 50%
HSV	29°, 100%, 99%
XYZ	47.8479, 35.3238, 4.2230
YIQ	148.4350, 116.6880, -11.2160

# Conversions

## Conversions Part 2

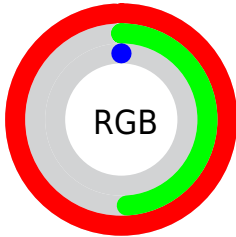
Format	Color
R <sub>Y</sub> B	253, 243, 0
Decimal	16612352
CIE Lab	66.00, 44.30, 73.68
CIE LCh	66, 85.974, 58.982
Yxy	35.3238, 0.5475, 0.4042
Android (android.graphics.Color)	4294802432 (0xFFFD7C00)
YUV	148.4350, -73.1785, 91.7035
Hunter-Lab	59.4338, 39.6944, 37.3909

# Details

The CIELCh color **66, 85.974, 58.982** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **55, 71.580, 283.854**, and the grayscale version is **62, 0.008, 296.813**.

A 20% lighter version of the original color is **78, 65.712, 73.352**, and **46, 72.242, 51.848** is the 20% darker color. If you saturate the color by 10%, you get **66, 85.654, 58.841**, and if you desaturate by 10%, it is **69, 80.261, 61.633**.

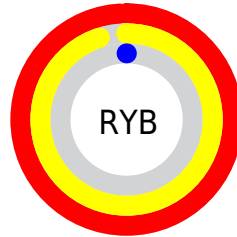
# Distribution



Red (99%)

Green (49%)

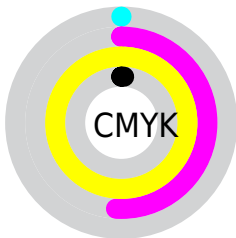
Blue (0%)



Red (99%)

Yellow (95%)

Blue (0%)

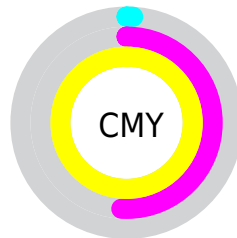


Cyan (0%)

Magenta (51%)

Yellow (100%)

Black (1%)



Cyan (1%)

Magenta (51%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 66, 85.974, 58.982 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 66, 85.974, 58.982 by changing the saturation by 10% instead.



 66, 85.974, 58.982

 66, 85.974, 58.982

 100, 85.974,  
58.982

 56, 85.974, 58.982

 86, 85.974, 58.982

 46, 85.974, 58.982

 96, 85.974, 58.982

 36, 85.974, 58.982

 26, 85.974, 58.982

 16, 85.974, 58.982

 6, 85.974, 58.982

 0, 85.974, 58.982

 66, 85.974, 58.982

 66, 85.974, 58.982

 66, 85.654, 58.841

 69, 80.261, 61.633

72, 72.448, 63.697

75, 63.114, 65.276

78, 53.266, 66.640

81, 43.454, 67.923

85, 33.939, 69.179

88, 24.825, 70.427

92, 16.141, 71.664

96, 7.872, 72.869

# Harmonies

# Complementary

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



66, 85.974, 58.982



55, 71.580, 283.854

# Rectangle

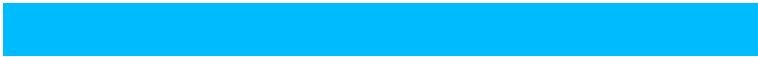
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



66, 85.974, 58.982



66, 85.974, 108.982



66, 85.974, 238.982



66, 85.974, 288.982

# Sweetspot

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



66, 85.654, 58.841



89, 24.947, 70.426



55, 84.469, 1.313



46, 17.201, 69.901



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



66, 85.654, 58.841



66, 86.049, 58.828



96, 95.261, 101.778



51, 4.492, 72.927



51, 69.034, 59.539



16, 27.023, 60.661





# Inverse Universe

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



55, 71.580, 283.854



55, 71.927, 283.869



32, 132.555, 306.152



51, 4.384, 255.438



42, 56.950, 283.014



12, 23.236, 276.368



# Previews

## White Background



This preview shows how the CIELCh color 66, 85.974, 58.982 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 66, 85.974, 58.982 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 66, 85.974, 58.982

## Background



This preview shows how black text looks on a background with the CIELCh color 66, 85.974, 58.982.



This preview shows how white text looks on a background with the CIELCh color 66, 85.974, 58.982.

# 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

66, 85.457, 58.993

### Protanopia

66, 66.019, 95.187

### Deuteranopia

66, 70.646, 83.608



**Tritanopia**  
66, 57.507, 22.559



# Trichromacy



**Original Color**  
66, 85.457, 58.993

**Protanomaly**  
65, 68.968, 79.098

**Deuteranomaly**  
66, 74.056, 72.974

**Tritanomaly**  
66, 67.106, 43.342

# Monochromacy



**Original Color**  
66, 85.457, 58.993

**Achromatopsia**  
61, 0.008, 296.813

**Achromatomaly**  
61, 33.325, 68.192

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 85.974, 58.982 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, 124, 0)` looks like.

```
.text, #text, p{  
    color:rgb(253, 124, 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(253, 124, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(253, 124, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 85.974, 58.982 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, 124, 0) }
```

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

```
.border{ border-color:rgb(253, 124, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(253, 124, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(253, 124, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(253, 124, 0);  
box-shadow:4px 4px 4px 4px rgb(253, 124,  
0) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 85.974, 58.982 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(253, 124, 0) }
```

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

```
.background{ background-color: rgb(253,  
124, 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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