

# Converting Colors

CIELCh(68, 81.066, 59.643)

Have a look what the booklet for  
CIELCh(68, 81.066, 59.643) contains.

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# Color

**CIELCh(68, 80.974, 59.469)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF841B
RGB	255, 132, 27
RGB Percent	100%, 52%, 11%
CMY	0.0000, 0.4813, 0.8927
CMYK	0.00, 0.48, 0.89, 0.00
HSL	28°, 100%, 55%
HSV	28°, 89%, 100%
XYZ	49.8429, 37.9720, 5.7603
YIQ	156.8070, 107.0130, -6.5790

# Conversions

## Conversions Part 2

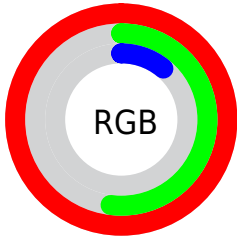
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 222, 27
Decimal	16745499
CIE Lab	68.00, 41.14, 69.75
CIE LCh	68, 80.974, 59.469
Yxy	37.9720, 0.5327, 0.4058
Android (android.graphics.Color)	4294935579 (0xFFFF841B)
YUV	156.8070, -63.9949, 86.1153
Hunter-Lab	61.6215, 36.5433, 37.5926

# Details

The CIELCh color **68, 80.974, 59.469** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **61, 61.047, 275.813**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **80, 61.472, 76.078**, and **48, 71.346, 54.323** is the 20% darker color. If you saturate the color by 10%, you get **65, 86.795, 56.864**, and if you desaturate by 10%, it is **71, 72.489, 61.413**.

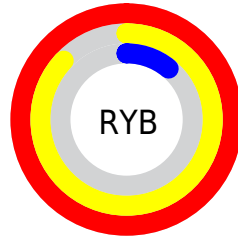
# Distribution



Red (100%)

Green (52%)

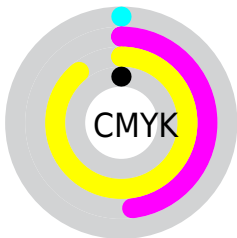
Blue (11%)



Red (100%)

Yellow (87%)

Blue (11%)

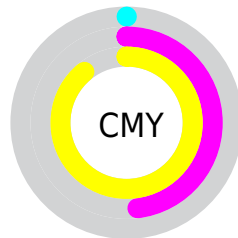


Cyan (0%)

Magenta (48%)

Yellow (89%)

Black (0%)



Cyan (0%)

Magenta (48%)

Yellow (89%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 80.974, 59.469 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, 80.974, 59.469 by changing the saturation by 10% instead.



 68, 80.974, 59.469

 68, 80.974, 59.469

 100, 80.974,  
59.469

 58, 80.974, 59.469

 88, 80.974, 59.469

 48, 80.974, 59.469

 98, 80.974, 59.469

 38, 80.974, 59.469

 28, 80.974, 59.469

 18, 80.974, 59.469

 8, 80.974, 59.469

 0, 80.974, 59.469

 68, 80.974, 59.469

 68, 80.974, 59.469

 65, 86.795, 56.864

 71, 72.489, 61.413

65, 87.195, 56.675

74, 62.764, 62.838

77, 52.672, 64.075

81, 42.724, 65.252

85, 33.150, 66.420

88, 24.036, 67.593

92, 15.396, 68.766

96, 7.210, 69.912

100, 0.012,  
296.813

# Harmonies

# Complementary

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



68, 80.974, 59.469



61, 61.047, 275.813

# Rectangle

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



68, 80.974, 59.469



68, 80.974, 109.469



68, 80.974, 239.469



68, 80.974, 289.469

# Sweetspot

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



68, 80.865, 59.527



89, 22.030, 67.860



56, 84.577, 354.371



46, 14.985, 67.459



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, 80.865, 59.527



65, 87.195, 56.675



94, 91.128, 100.005



51, 4.423, 69.887



50, 69.910, 57.384



15, 27.096, 57.959





# Inverse Universe

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



61, 61.047, 275.813



57, 67.969, 280.961



36, 123.953, 304.582



51, 4.298, 252.327



44, 53.856, 280.074



13, 22.118, 273.225



# Previews

## White Background



This preview shows how the CIELCh color 68, 80.974, 59.469 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, 80.974, 59.469 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, 80.974, 59.469

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 80.974, 59.469.



This preview shows how white text looks on a background with the CIELCh color 68, 80.974, 59.469.

# 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, 80.974, 59.469

### Protanopia

68, 64.253, 94.961

### Deuteranopia

68, 72.314, 83.000



**Tritanopia**  
68, 53.202, 20.890



# Trichromacy



**Original Color**  
68, 80.974, 59.469

**Protanomaly**  
67, 66.486, 79.750

**Deuteranomaly**  
68, 74.054, 73.754

**Tritanomaly**  
68, 60.816, 41.248

# Monochromacy



**Original Color**  
68, 80.974, 59.469

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
65, 29.172, 65.753

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 80.974, 59.469 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, 132, 27)` looks like.

```
.text, #text, p{  
    color:rgb(255, 132, 27)  
}
```

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, 132, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 132, 27) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 80.974, 59.469 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, 132, 27) }
```

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

```
.border{ border-color:rgb(255, 132, 27) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 132, 27)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 132, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 132, 27);  
box-shadow:4px 4px 4px 4px rgb(255, 132,  
27) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 80.974, 59.469 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 132, 27) }
```

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

```
.background{ background-color: rgb(255,  
132, 27) }
```

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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