

# Converting Colors

CIELCh(57, 96.845, 45.381)

Have a look what the booklet for  
CIELCh(57, 96.845, 45.381) contains.

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# Color

**CIELCh(57, 96.400, 45.271)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FD4300
RGB	253, 67, 0
RGB Percent	99%, 26%, 0%
CMY	0.0075, 0.7369, 0.9996
CMYK	0.00, 0.73, 1.00, 0.01
HSL	16°, 100%, 50%
HSV	16°, 100%, 99%
XYZ	42.5513, 24.9227, 2.5707
YIQ	114.9760, 132.3630, 18.5950

# Conversions

## Conversions Part 2

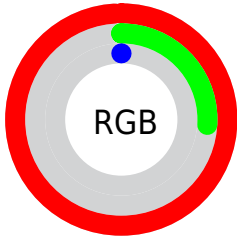
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	253, 91, 0
Decimal	16597760
CIE Lab	57.00, 67.84, 68.49
CIE LCh	57, 96.400, 45.271
Yxy	24.9227, 0.6075, 0.3558
Android (android.graphics.Color)	4294787840 (0xFFFD4300)
YUV	114.9760, -56.6832, 121.0470
Hunter-Lab	49.9226, 64.7790, 31.8928

# Details

The CIELCh color **57, 96.400, 45.271** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **71, 46.599, 250.288**, and the grayscale version is **49, 0.006, 296.813**.

A 20% lighter version of the original color is **67, 71.279, 51.272**, and **39, 82.501, 39.999** is the 20% darker color. If you saturate the color by 10%, you get **57, 96.425, 45.270**, and if you desaturate by 10%, it is **60, 88.688, 46.187**.

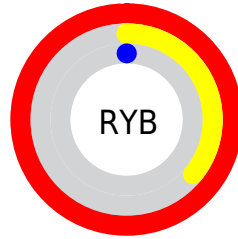
# Distribution



Red (99%)

Green (26%)

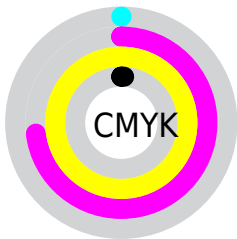
Blue (0%)



Red (99%)

Yellow (36%)

Blue (0%)

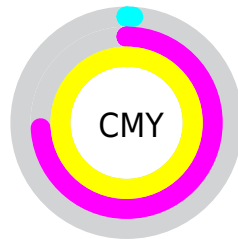


Cyan (0%)

Magenta (73%)

Yellow (100%)

Black (1%)



Cyan (1%)

Magenta (74%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 57, 96.400, 45.271 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 57, 96.400, 45.271 by changing the saturation by 10% instead.



57, 96.400, 45.271

57, 96.400, 45.271

100, 96.400,  
45.271

47, 96.400, 45.271

77, 96.400, 45.271

37, 96.400, 45.271

87, 96.400, 45.271

27, 96.400, 45.271

97, 96.400, 45.271

17, 96.400, 45.271

7, 96.400, 45.271

0, 96.400, 45.271

57, 96.400, 45.271

57, 96.400, 45.271

57, 96.425, 45.270

60, 88.688, 46.187

63, 78.355, 46.305

66, 66.924, 46.060

70, 55.480, 45.817

75, 44.506, 45.706

79, 34.197, 45.755

84, 24.612, 45.951

89, 15.743, 46.264

94, 7.548, 46.647

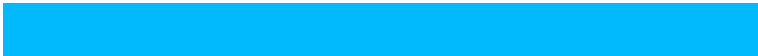
# Harmonies

# Complementary

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



57, 96.400, 45.271



71, 46.599, 250.288

# Rectangle

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



57, 96.400, 45.271



57, 96.400, 95.271



57, 96.400, 225.271



57, 96.400, 275.271

# Sweetspot

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



57, 96.396, 45.273



85, 24.801, 45.949



57, 94.587, 341.681



43, 17.215, 45.851



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



57, 96.396, 45.273



57, 96.992, 45.259



81, 83.226, 82.979



50, 4.327, 46.664



43, 77.628, 45.775



12, 29.038, 41.271



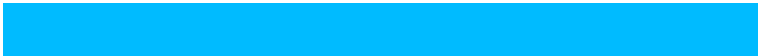


# Inverse Universe

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



71, 46.599, 250.288



72, 46.881, 250.329



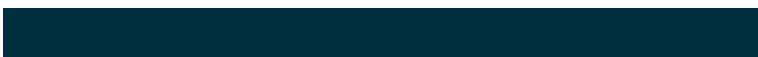
39, 111.656, 301.171



51, 4.095, 227.882



55, 37.535, 249.403



17, 16.672, 242.795



# Previews

## White Background



This preview shows how the CIELCh color 57, 96.400, 45.271 looks on a white background.

## Color Contrast Check

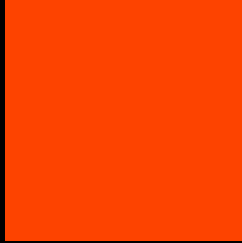
Large Text (above 18pt) WCAG AA ✓ Pass

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 57, 96.400, 45.271 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 × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 57, 96.400, 45.271

## Background



This preview shows how black text looks on a background with the CIELCh color 57, 96.400, 45.271.



This preview shows how white text looks on a background with the CIELCh color 57, 96.400, 45.271.

# 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

57, 96.400, 45.271

### Protanopia

57, 55.749, 95.786

### Deuteranopia

57, 62.730, 83.654



**Tritanopia**  
57, 83.156, 31.875



# Trichromacy



**Original Color**  
57, 96.400, 45.271

**Protanomaly**  
55, 63.250, 66.936

**Deuteranomaly**  
55, 70.791, 62.850

**Tritanomaly**  
57, 89.338, 38.821

# Monochromacy



**Original Color**  
57, 96.400, 45.271

**Achromatopsia**  
48, 0.006, 296.813

**Achromatomaly**  
49, 35.558, 46.359

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 57, 96.400, 45.271 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, 67, 0)` looks like.

```
.text, #text, p{  
    color:rgb(253, 67, 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, 67, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(253, 67, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 57, 96.400, 45.271 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, 67, 0) }
```

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

```
.border{ border-color:rgb(253, 67, 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, 67, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(253, 67, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(253, 67, 0);  
box-shadow:4px 4px 4px 4px rgb(253, 67, 0)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 57, 96.400, 45.271 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(253, 67, 0) }
```

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

```
.background{ background-color: rgb(253, 67,  
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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