

# Converting Colors

CIELCh(59, 83.346, 47.670)

Have a look what the booklet for  
CIELCh(59, 83.346, 47.670) contains.

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# Color

**CIELCh(59, 83.585, 47.786)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F55C1D
RGB	245, 92, 29
RGB Percent	96%, 36%, 11%
CMY	0.0407, 0.6405, 0.8876
CMYK	0.00, 0.63, 0.88, 0.04
HSL	18°, 91%, 54%
HSV	18°, 88%, 96%
XYZ	41.5381, 27.0277, 4.1680
YIQ	130.5650, 111.4110, 12.8430

# Conversions

## Conversions Part 2

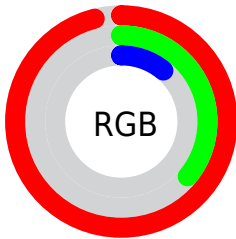
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 118, 29
Decimal	16079901
CIE <sub>Lab</sub>	59.00, 56.16, 61.91
CIE <sub>LCh</sub>	59, 83.585, 47.786
Yxy	27.0277, 0.5711, 0.3716
Android (android.graphics.Color)	4294269981 (0xFFFF55C1D)
YUV	130.5650, -50.0715, 100.3595
Hunter-Lab	51.9882, 51.6404, 31.6384

# Details

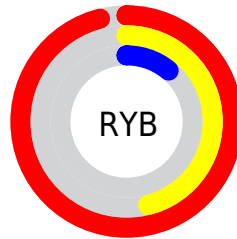
The CIELCh color **59, 83.585, 47.786** is a dark color, and the websafe version is hex **FF6633**. The color can be described as dark washed red. A complement of this color would be **70, 44.348, 249.761**, and the grayscale version is **55, 0.007, 296.813**.

A 20% lighter version of the original color is **71, 62.180, 55.262**, and **39, 77.045, 42.899** is the 20% darker color. If you saturate the color by 10%, you get **56, 91.406, 46.651**, and if you desaturate by 10%, it is **62, 73.406, 48.114**.

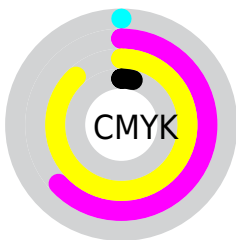
# Distribution



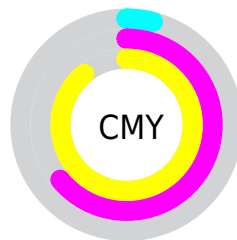
- Red (96%)
- Green (36%)
- Blue (11%)



- Red (96%)
- Yellow (46%)
- Blue (11%)



- Cyan (0%)
- Magenta (63%)
- Yellow (88%)
- Black (4%)



- Cyan (4%)
- Magenta (64%)
- Yellow (89%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 59, 83.585, 47.786 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 59, 83.585, 47.786 by changing the saturation by 10% instead.



59, 83.585, 47.786

59, 83.585, 47.786

100, 83.585,  
47.786

49, 83.585, 47.786

79, 83.585, 47.786

39, 83.585, 47.786

89, 83.585, 47.786

29, 83.585, 47.786

99, 83.585, 47.786

19, 83.585, 47.786

9, 83.585, 47.786

0, 83.585, 47.786

59, 83.585, 47.786

59, 83.585, 47.786

56, 91.406, 46.651

62, 73.406, 48.114

56, 92.616, 46.475

66, 62.413, 48.139

70, 51.510, 48.163

74, 41.096, 48.295

78, 31.326, 48.558

83, 22.241, 48.942

88, 13.821, 49.418

92, 6.024, 49.934

97, 1.209, 231.149

# Harmonies

# Complementary

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



59, 83.585, 47.786



70, 44.348, 249.761

# Rectangle

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



59, 83.585, 47.786



59, 83.585, 97.786



59, 83.585, 227.786



59, 83.585, 277.786

# Sweetspot

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



59, 83.582, 47.788



87, 20.960, 49.041



56, 89.318, 341.976



45, 14.406, 48.888



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



59, 83.582, 47.788



58, 95.659, 46.405



82, 79.411, 88.025



49, 4.155, 49.874



43, 74.975, 47.023



11, 26.188, 42.127



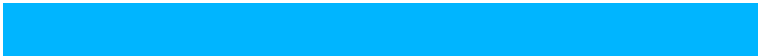


# Inverse Universe

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



70, 44.348, 249.761



70, 48.784, 255.669



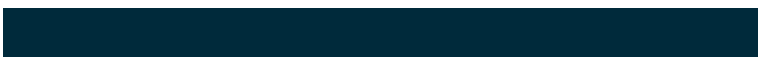
41, 100.045, 299.105



49, 3.944, 231.319



52, 38.178, 254.604



15, 16.119, 246.945



# Previews

## White Background



This preview shows how the CIELCh color 59, 83.585, 47.786 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 59, 83.585, 47.786 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 59, 83.585, 47.786**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 59, 83.585, 47.786.



This preview shows how white text looks on a background with the CIELCh color 59, 83.585, 47.786.

# 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

59, 83.585, 47.786

### Protanopia

59, 53.593, 95.476

### Deuteranopia

59, 64.557, 83.457



**Tritanopia**  
59, 68.806, 26.981



# Trichromacy



**Original Color**  
59, 83.585, 47.786

**Protanomaly**  
58, 57.880, 70.702

**Deuteranomaly**  
58, 68.396, 67.256

**Tritanomaly**  
59, 73.458, 36.557

# Monochromacy



**Original Color**  
59, 83.585, 47.786

**Achromatopsia**  
54, 0.007, 296.813

**Achromatomaly**  
54, 28.984, 48.301

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 59, 83.585, 47.786 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(245, 92, 29)` looks like.

```
.text, #text, p{  
    color:rgb(245, 92, 29)  
}
```

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(245, 92, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 92, 29) }
```

## Border

The CSS property to change the border of an element to CIELCh 59, 83.585, 47.786 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(245, 92, 29) }
```

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

```
.border{ border-color:rgb(245, 92, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 92, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 92, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 92, 29);  
box-shadow:4px 4px 4px 4px rgb(245, 92,  
29) }
```

# Background

The CSS property to change the background color of an element to CIELCh 59, 83.585, 47.786 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 92, 29) }
```

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

```
.background{ background-color: rgb(245, 92,  
29) }
```

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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