

# Converting Colors

CIELCh(59, 94.416, 47.553)

Have a look what the booklet for  
CIELCh(59, 94.416, 47.553) contains.

<b>CIELCh(59, 94.542, 47.433)</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(59, 94.542, 47.433)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5000
RGB	255, 80, 0
RGB Percent	100%, 31%, 0%
CMY	0.0000, 0.6859, 0.9995
CMYK	0.00, 0.69, 1.00, 0.00
HSL	19°, 100%, 50%
HSV	19°, 100%, 100%
XYZ	44.1501, 27.0277, 2.8933
YIQ	123.2050, 129.9800, 12.2200

# Conversions

## Conversions Part 2

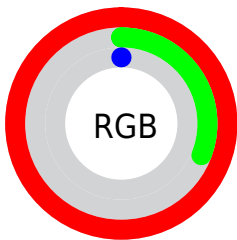
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 117, 0
Decimal	16732160
CIE <sub>Lab</sub>	59.00, 63.95, 69.63
CIE <sub>LCh</sub>	59, 94.542, 47.433
Yxy	27.0277, 0.5961, 0.3649
Android (android.graphics.Color)	4294922240 (0xFFFF5000)
YUV	123.2050, -60.7401, 115.5842
Hunter-Lab	51.9882, 60.6088, 33.0921

# Details

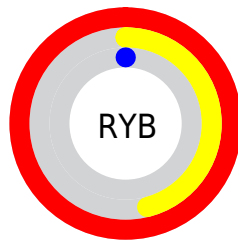
The CIELCh color **59, 94.542, 47.433** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated red. A complement of this color would be **68, 50.598, 259.729**, and the grayscale version is **52, 0.007, 296.813**.

A 20% lighter version of the original color is **69, 69.141, 55.457**, and **39, 83.490, 40.000** is the 20% darker color. If you saturate the color by 10%, you get **59, 94.539, 47.435**, and if you desaturate by 10%, it is **62, 87.010, 48.926**.

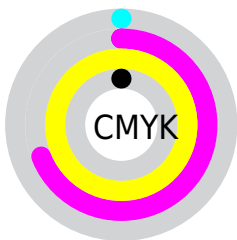
# Distribution



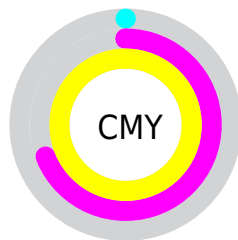
- Red (100%)
- Green (31%)
- Blue (0%)



- Red (100%)
- Yellow (46%)
- Blue (0%)



- Cyan (0%)
- Magenta (69%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (69%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 59, 94.542, 47.433 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, 94.542, 47.433 by changing the saturation by 10% instead.



 59, 94.542, 47.433

 59, 94.542, 47.433

 100, 94.542,  
47.433

 49, 94.542, 47.433

 79, 94.542, 47.433

 39, 94.542, 47.433

 89, 94.542, 47.433

 29, 94.542, 47.433

 99, 94.542, 47.433

 19, 94.542, 47.433

 9, 94.542, 47.433

 0, 94.542, 47.433

 59, 94.542, 47.433

 59, 94.542, 47.433

 59, 94.539, 47.435

 62, 87.010, 48.926

 65, 76.998, 49.615

68, 65.869, 49.892

72, 54.689, 50.104

76, 43.943, 50.386

81, 33.826, 50.776

86, 24.393, 51.273

90, 15.636, 51.855

95, 7.510, 52.479

# Harmonies

# Complementary

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



59, 94.542, 47.433



68, 50.598, 259.729

# Rectangle

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



59, 94.542, 47.433



59, 94.542, 97.433



59, 94.542, 227.433



59, 94.542, 277.433

# Sweetspot

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



59, 94.506, 47.441



85, 24.436, 51.271



57, 91.963, 345.316



44, 16.947, 51.050



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, 94.506, 47.441



59, 94.539, 47.435



84, 85.295, 87.535



51, 4.283, 52.506



45, 75.658, 48.023



13, 28.378, 44.879





# Inverse Universe

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



68, 50.598, 259.729



68, 50.612, 259.753



37, 118.950, 302.928



51, 4.075, 234.132



52, 40.388, 258.778



16, 17.528, 251.648



# Previews

## White Background



This preview shows how the CIELCh color 59, 94.542, 47.433 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, 94.542, 47.433 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, 94.542, 47.433

## Background



This preview shows how black text looks on a background with the CIELCh color 59, 94.542, 47.433.



This preview shows how white text looks on a background with the CIELCh color 59, 94.542, 47.433.

# 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, 94.542, 47.433

### Protanopia

59, 58.264, 95.582

### Deuteranopia

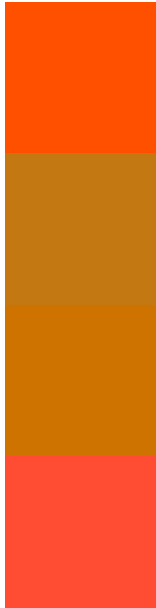
59, 64.379, 83.847



**Tritanopia**  
59, 77.180, 29.332



# Trichromacy



**Original Color**  
59, 94.542, 47.433

**Protanomaly**  
57, 64.678, 69.589

**Deuteranomaly**  
58, 71.516, 65.056

**Tritanomaly**  
59, 84.524, 38.844

# Monochromacy



**Original Color**  
59, 94.542, 47.433

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 34.998, 50.102

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 59, 94.542, 47.433 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, 80, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 80, 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, 80, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 80, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 59, 94.542, 47.433 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, 80, 0) }
```

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

```
.border{ border-color:rgb(255, 80, 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, 80, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 80, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 80, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 80, 0)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 59, 94.542, 47.433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 80, 0) }
```

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

```
.background{ background-color: rgb(255, 80,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor