

# Converting Colors

CIELCh(58, 96.673, 45.526)

Have a look what the booklet for  
CIELCh(58, 96.673, 45.526) contains.

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# Color

**CIELCh(58, 96.238, 45.478)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4703
RGB	255, 71, 3
RGB Percent	100%, 28%, 1%
CMY	0.0000, 0.7217, 0.9873
CMYK	0.00, 0.72, 0.99, 0.00
HSL	16°, 100%, 51%
HSV	16°, 99%, 100%
XYZ	43.8828, 25.9610, 2.7911
YIQ	118.2640, 131.4920, 17.8600

# Conversions

## Conversions Part 2

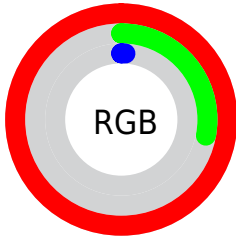
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 96, 3
Decimal	16729859
CIELab	58.00, 67.48, 68.62
CIELCh	58, 96.238, 45.478
Yxy	25.9610, 0.6042, 0.3574
Android (android.graphics.Color)	4294919939 (0xFFFF4703)
YUV	118.2640, -56.8252, 119.9175
Hunter-Lab	50.9519, 64.5690, 32.4185

# Details

The CIELCh color **58, 96.238, 45.478** 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, 46.883, 250.564**, and the grayscale version is **50, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 70.171, 52.004**, and **39, 83.490, 40.000** is the 20% darker color. If you saturate the color by 10%, you get **58, 96.789, 45.428**, and if you desaturate by 10%, it is **60, 87.882, 46.467**.

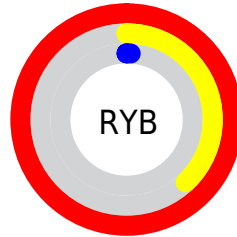
# Distribution



Red (100%)

Green (28%)

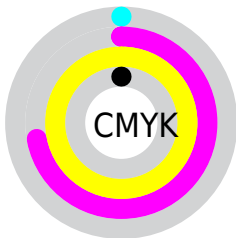
Blue (1%)



Red (100%)

Yellow (38%)

Blue (1%)

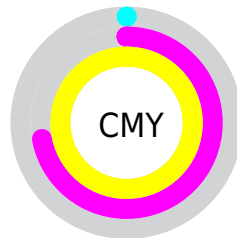


Cyan (0%)

Magenta (72%)

Yellow (99%)

Black (0%)



Cyan (0%)

Magenta (72%)

Yellow (99%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 58, 96.238, 45.478 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 58, 96.238, 45.478 by changing the saturation by 10% instead.



58, 96.238, 45.478

58, 96.238, 45.478

100, 96.238,  
45.478

48, 96.238, 45.478

78, 96.238, 45.478

38, 96.238, 45.478

88, 96.238, 45.478

28, 96.238, 45.478

98, 96.238, 45.478

18, 96.238, 45.478

8, 96.238, 45.478

0, 96.238, 45.478

58, 96.238, 45.478

58, 96.238, 45.478

58, 96.789, 45.428

60, 87.882, 46.467

64, 77.293, 46.561

67, 65.777, 46.350

71, 54.329, 46.158

76, 43.387, 46.100

80, 33.125, 46.198

85, 23.590, 46.436

90, 14.768, 46.785

95, 6.614, 47.190

# Harmonies

# Complementary

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



58, 96.238, 45.478



71, 46.883, 250.564

# Rectangle

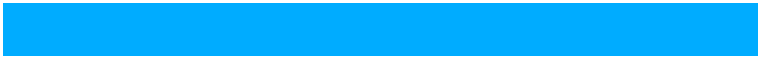
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



58, 96.238, 45.478



58, 96.238, 95.478



58, 96.238, 225.478



58, 96.238, 275.478

# Sweetspot

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



58, 95.880, 45.531



85, 24.762, 46.399



57, 94.019, 342.650



43, 17.187, 46.289



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



58, 95.880, 45.531



58, 96.789, 45.428



82, 83.957, 84.744



50, 4.322, 47.159



44, 77.464, 45.951



13, 28.979, 41.564





# Inverse Universe

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



71, 46.883, 250.564



71, 47.151, 251.180



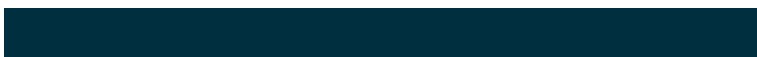
39, 113.321, 301.496



51, 4.091, 228.415



55, 37.740, 250.248



17, 16.730, 243.578



# Previews

## White Background



This preview shows how the CIELCh color 58, 96.238, 45.478 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 58, 96.238, 45.478 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 58, 96.238, 45.478**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 58, 96.238, 45.478.



This preview shows how white text looks on a background with the CIELCh color 58, 96.238, 45.478.

# 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

58, 95.907, 45.557

### Protanopia

58, 56.570, 95.416

### Deuteranopia

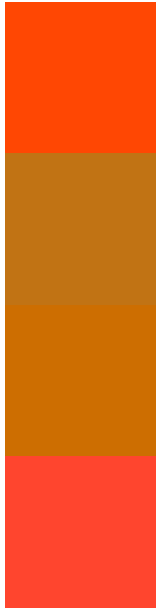
58, 63.498, 83.494



**Tritanopia**  
58, 81.294, 31.194



# Trichromacy



**Original Color**  
58, 95.907, 45.557

**Protanomaly**  
56, 63.581, 67.360

**Deuteranomaly**  
56, 71.254, 63.332

**Tritanomaly**  
58, 87.452, 38.507

# Monochromacy



**Original Color**  
58, 95.907, 45.557

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 35.320, 46.356

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 96.238, 45.478 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, 71, 3)` looks like.

```
.text, #text, p{  
    color:rgb(255, 71, 3)  
}
```

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, 71, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 71, 3) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 96.238, 45.478 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, 71, 3) }
```

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

```
.border{ border-color:rgb(255, 71, 3) }
```

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

Here you see how a box with a 4 pixel rgb(255, 71, 3) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 71, 3); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 71, 3);  
box-shadow:4px 4px 4px 4px rgb(255, 71, 3)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 96.238, 45.478 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 71, 3) }
```

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

```
.background{ background-color: rgb(255, 71,  
3) }
```

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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