

# Converting Colors

CIELCh(58, 95.145, 44.964)

Have a look what the booklet for  
CIELCh(58, 95.145, 44.964) contains.

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# Color

**CIELCh(58, 94.968, 44.956)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF480B
RGB	255, 72, 11
RGB Percent	100%, 28%, 4%
CMY	0.0000, 0.7195, 0.9579
CMYK	0.00, 0.72, 0.96, 0.00
HSL	15°, 100%, 52%
HSV	15°, 96%, 100%
XYZ	43.7888, 25.9610, 3.0118
YIQ	119.7630, 128.6490, 19.8250

# Conversions

## Conversions Part 2

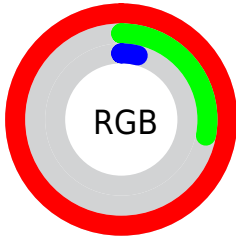
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 92, 11
Decimal	16730123
CIE <sub>Lab</sub>	58.00, 67.20, 67.10
CIE <sub>LCh</sub>	58, 94.968, 44.956
Yxy	25.9610, 0.6018, 0.3568
Android (android.graphics.Color)	4294920203 (0xFFFF480B)
YUV	119.7630, -53.6202, 118.6028
Hunter-Lab	50.9519, 64.2394, 32.1617

# Details

The CIELCh color **58, 94.968, 44.956** 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 **74, 45.245, 245.052**, and the grayscale version is **50, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 68.682, 51.376**, and **39, 83.490, 40.000** is the 20% darker color. If you saturate the color by 10%, you get **57, 97.749, 44.644**, and if you desaturate by 10%, it is **61, 85.826, 45.425**.

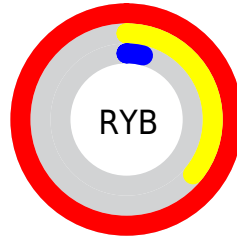
# Distribution



Red (100%)

Green (28%)

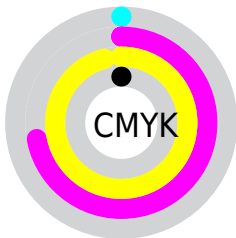
Blue (4%)



Red (100%)

Yellow (36%)

Blue (4%)

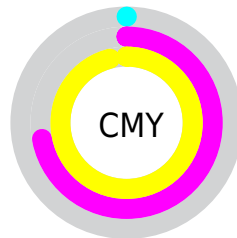


Cyan (0%)

Magenta (72%)

Yellow (96%)

Black (0%)



Cyan (0%)

Magenta (72%)

Yellow (96%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 58, 94.968, 44.956 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, 94.968, 44.956 by changing the saturation by 10% instead.



58, 94.968, 44.956

58, 94.968, 44.956

100, 94.968,  
44.956

48, 94.968, 44.956

78, 94.968, 44.956

38, 94.968, 44.956

88, 94.968, 44.956

28, 94.968, 44.956

98, 94.968, 44.956

18, 94.968, 44.956

8, 94.968, 44.956

0, 94.968, 44.956

58, 94.968, 44.956

58, 94.968, 44.956

57, 97.749, 44.644

61, 85.826, 45.425

64, 74.685, 45.136

68, 62.989, 44.695

72, 51.535, 44.352

77, 40.664, 44.181

81, 30.506, 44.184

86, 21.091, 44.336

92, 12.393, 44.600

97, 4.363, 44.885

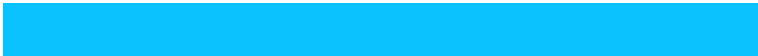
# Harmonies

# Complementary

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



58, 94.968, 44.956



74, 45.245, 245.052

# Rectangle

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



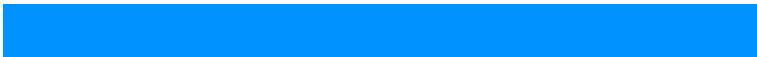
58, 94.968, 44.956



58, 94.968, 94.956



58, 94.968, 224.956



58, 94.968, 274.956

# Sweetspot

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



58, 94.769, 44.984



85, 24.035, 44.273



58, 96.219, 339.967



43, 16.786, 44.209



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, 94.769, 44.984



57, 97.749, 44.644



81, 82.552, 82.301



50, 4.351, 44.793



43, 78.243, 45.135



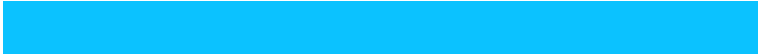
12, 29.265, 40.190





# Inverse Universe

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



74, 45.245, 245.052



73, 45.948, 247.030



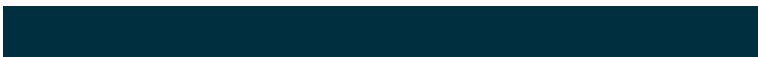
42, 105.333, 299.276



51, 4.112, 225.870



56, 36.828, 246.135



18, 16.478, 239.789



# Previews

## White Background



This preview shows how the CIELCh color 58, 94.968, 44.956 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, 94.968, 44.956 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, 94.968, 44.956

## Background



This preview shows how black text looks on a background with the CIELCh color 58, 94.968, 44.956.



This preview shows how white text looks on a background with the CIELCh color 58, 94.968, 44.956.

# 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, 94.644, 45.043

### Protanopia

58, 55.941, 95.403

### Deuteranopia

58, 63.498, 83.494



**Tritanopia**  
58, 81.050, 30.852



# Trichromacy



**Original Color**  
58, 94.644, 45.043

**Protanomaly**  
56, 62.572, 66.890

**Deuteranomaly**  
56, 70.772, 63.107

**Tritanomaly**  
58, 86.636, 37.738

# Monochromacy



**Original Color**  
58, 94.644, 45.043

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 33.818, 44.350

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 94.968, 44.956 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, 72, 11)` looks like.

```
.text, #text, p{  
    color:rgb(255, 72, 11)  
}
```

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, 72, 11) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 72, 11) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 94.968, 44.956 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, 72, 11) }
```

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

```
.border{ border-color:rgb(255, 72, 11) }
```

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

Here you see how a box with a 4 pixel rgb(255, 72, 11) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 72, 11); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 72, 11);  
box-shadow:4px 4px 4px 4px rgb(255, 72,  
11) }
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 94.968, 44.956 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 72, 11) }
```

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

```
.background{ background-color: rgb(255, 72,  
11) }
```

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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