

# Converting Colors

CIELCh(58, 85.013, 36.324)

Have a look what the booklet for  
CIELCh(58, 85.013, 36.324) contains.

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**Color**

**CIELCh(58, 84.807, 36.288)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4637
RGB	255, 70, 55
RGB Percent	100%, 27%, 22%
CMY	0.0000, 0.7249, 0.7839
CMYK	0.00, 0.72, 0.78, 0.00
HSL	5°, 100%, 61%
HSV	5°, 78%, 100%
XYZ	44.1828, 25.9610, 6.3094
YIQ	123.6050, 115.0750, 34.5550

# Conversions

## Conversions Part 2

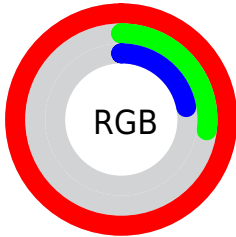
<b>Format</b>	<b>Color</b>
<b>RYB</b>	255, 71, 55
Decimal	16729655
CIELab	58.00, 68.36, 50.19
CIElCh	58, 84.807, 36.288
Yxy	25.9610, 0.5779, 0.3396
Android (android.graphics.Color)	4294919735 (0xFFFF4637)
YUV	123.6050, -33.8223, 115.2334
Hunter-Lab	50.9519, 65.6197, 28.3245

# Details

The CIELCh color **58, 84.807, 36.288** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **87, 43.796, 207.251**, and the grayscale version is **52, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 57.826, 38.370**, and **39, 81.669, 38.360** is the 20% darker color. If you saturate the color by 10%, you get **55, 95.384, 38.782**, and if you desaturate by 10%, it is **61, 72.796, 33.758**.

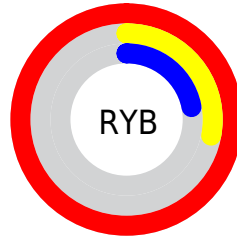
# Distribution



Red (100%)

Green (27%)

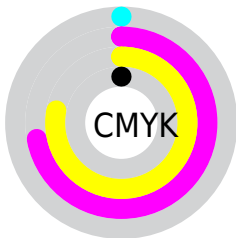
Blue (22%)



Red (100%)

Yellow (28%)

Blue (22%)

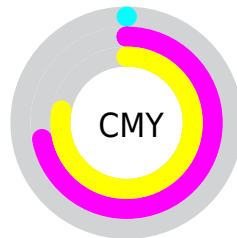


Cyan (0%)

Magenta (72%)

Yellow (78%)

Black (0%)



Cyan (0%)

Magenta (72%)

Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 58, 84.807, 36.288 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, 84.807, 36.288 by changing the saturation by 10% instead.



 58, 84.807, 36.288

 58, 84.807, 36.288

 100, 84.807,  
36.288

 48, 84.807, 36.288

 78, 84.807, 36.288

 38, 84.807, 36.288

 88, 84.807, 36.288

 28, 84.807, 36.288

 98, 84.807, 36.288

 18, 84.807, 36.288

 8, 84.807, 36.288

 0, 84.807, 36.288

 58, 84.807, 36.288

 58, 84.807, 36.288

 55, 95.384, 38.782

 61, 72.796, 33.758

 54, 102.650,

 66, 60.573, 31.601

40.348

71, 48.593, 29.897

54, 103.567,  
40.599

76, 37.147, 28.602

82, 26.398, 27.640

88, 16.409, 26.930

95, 7.183, 26.381

100, 0.012,  
296.813

# Harmonies

# Complementary

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



58, 84.807, 36.288



87, 43.796, 207.251

# Rectangle

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



58, 84.807, 36.288



58, 84.807, 86.288



58, 84.807, 216.288



58, 84.807, 266.288

# Sweetspot

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



58, 84.750, 36.289



85, 21.916, 27.301



62, 102.778, 330.390



43, 15.278, 27.572



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, 84.750, 36.289



54, 99.995, 39.812



76, 71.250, 71.022



50, 4.889, 26.439



40, 83.167, 40.789



10, 31.911, 30.859





# Inverse Universe

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



87, 43.796, 207.251



86, 45.426, 208.865



59, 64.949, 281.787



52, 4.595, 205.993



66, 36.732, 209.383



22, 17.057, 207.673



# Previews

## White Background



This preview shows how the CIELCh color 58, 84.807, 36.288 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, 84.807, 36.288 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, 84.807, 36.288

## Background



This preview shows how black text looks on a background with the CIELCh color 58, 84.807, 36.288.



This preview shows how white text looks on a background with the CIELCh color 58, 84.807, 36.288.

# 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, 84.807, 36.288

### Protanopia

58, 36.531, 95.901

### Deuteranopia

58, 53.642, 82.353



**Tritanopia**  
58, 80.841, 31.050



# Trichromacy



**Original Color**  
58, 84.807, 36.288

**Protanomaly**  
56, 46.033, 56.177

**Deuteranomaly**  
56, 60.125, 57.278

**Tritanomaly**  
58, 82.347, 33.047

# Monochromacy



**Original Color**  
58, 84.807, 36.288

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
51, 30.333, 28.440

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 84.807, 36.288 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, 70, 55)` looks like.

```
.text, #text, p{  
    color:rgb(255, 70, 55)  
}
```

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, 70, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 70, 55) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 84.807, 36.288 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, 70, 55) }
```

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

```
.border{ border-color:rgb(255, 70, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 70, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 70, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 70, 55);  
box-shadow:4px 4px 4px 4px rgb(255, 70,  
55) }
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 84.807, 36.288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 70, 55) }
```

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

```
.background{ background-color: rgb(255, 70,  
55) }
```

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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