

# Converting Colors

CIELCh(58, 83.720, 33.643)

Have a look what the booklet for  
CIELCh(58, 83.720, 33.643) contains.

<b>CIELCh(58, 83.065, 33.490)</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(58, 83.065, 33.490)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF453F
RGB	255, 69, 63
RGB Percent	100%, 27%, 25%
CMY	0.0000, 0.7307, 0.7511
CMYK	0.00, 0.73, 0.75, 0.00
HSL	2°, 100%, 62%
HSV	2°, 75%, 100%
XYZ	44.4969, 25.9610, 7.4363
YIQ	123.9300, 112.7820, 37.5660

# Conversions

## Conversions Part 2

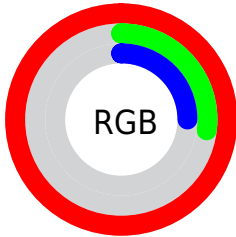
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 69, 63
Decimal	16729407
CIE <sub>Lab</sub>	58.00, 69.27, 45.83
CIE <sub>LCh</sub>	58, 83.065, 33.490
Yxy	25.9610, 0.5712, 0.3333
Android (android.graphics.Color)	4294919487 (0xFFFF453F)
YUV	123.9300, -30.0385, 114.9484
Hunter-Lab	50.9519, 66.7203, 27.0131

# Details

The CIELCh color **58, 83.065, 33.490** 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 **90, 45.370, 200.106**, and the grayscale version is **52, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 56.053, 34.116**, and **40, 79.815, 36.197** is the 20% darker color. If you saturate the color by 10%, you get **55, 93.697, 36.716**, and if you desaturate by 10%, it is **62, 70.844, 30.462**.

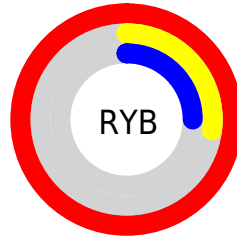
# Distribution



Red (100%)

Green (27%)

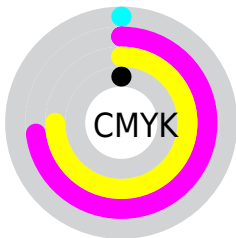
Blue (25%)



Red (100%)

Yellow (27%)

Blue (25%)

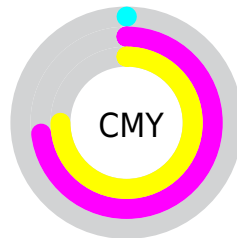


Cyan (0%)

Magenta (73%)

Yellow (75%)

Black (0%)



Cyan (0%)

Magenta (73%)

Yellow (75%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 58, 83.065, 33.490 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, 83.065, 33.490 by changing the saturation by 10% instead.



 58, 83.065, 33.490

 58, 83.065, 33.490

 100, 83.065,  
33.490

 48, 83.065, 33.490

 78, 83.065, 33.490

 38, 83.065, 33.490

 88, 83.065, 33.490

 28, 83.065, 33.490

 98, 83.065, 33.490

 18, 83.065, 33.490

 8, 83.065, 33.490

 0, 83.065, 33.490

 58, 83.065, 33.490

 58, 83.065, 33.490

 55, 93.697, 36.716

 62, 70.844, 30.462

 54, 101.734,

 66, 58.598, 27.982

39.292

71, 46.535, 26.046

53, 104.251,  
40.190

77, 34.961, 24.567

83, 24.058, 23.445

90, 13.908, 22.585

97, 4.519, 21.851

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, 83.065, 33.490



90, 45.370, 200.106

# Rectangle

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



58, 83.065, 33.490



58, 83.065, 83.490



58, 83.065, 213.490



58, 83.065, 263.490

# Sweetspot

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



58, 82.813, 33.472



85, 21.850, 23.245



63, 104.082, 328.482



43, 15.341, 23.594



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, 82.813, 33.472



54, 98.147, 38.143



75, 68.262, 67.077



50, 5.115, 22.178



40, 83.855, 40.273



10, 32.812, 28.500





# Inverse Universe

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



90, 45.370, 200.106



89, 47.736, 200.456



63, 57.193, 275.656



52, 4.811, 201.378



69, 38.867, 200.745



23, 17.959, 200.202



# Previews

## White Background



This preview shows how the CIELCh color 58, 83.065, 33.490 looks on a white background.

## Color Contrast Check

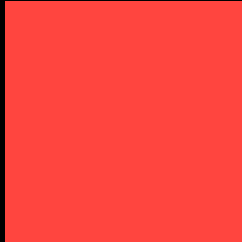
Large Text (above 18pt) WCAG AA ✓ Pass

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, 83.065, 33.490 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, 83.065, 33.490**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 58, 83.065, 33.490.



This preview shows how white text looks on a background with the CIELCh color 58, 83.065, 33.490.

# 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, 82.865, 33.685

### Protanopia

58, 30.208, 95.580

### Deuteranopia

58, 48.833, 80.835



**Tritanopia**  
58, 81.294, 31.194



# Trichromacy



**Original Color**  
58, 82.865, 33.685

**Protanomaly**  
55, 41.652, 50.300

**Deuteranomaly**  
56, 55.907, 53.699

**Tritanomaly**  
58, 81.789, 31.867

# Monochromacy



**Original Color**  
58, 82.865, 33.685

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
51, 29.885, 25.296

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 83.065, 33.490 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, 69, 63)` looks like.

```
.text, #text, p{  
    color:rgb(255, 69, 63)  
}
```

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, 69, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 69, 63) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 83.065, 33.490 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, 69, 63) }
```

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

```
.border{ border-color:rgb(255, 69, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 69, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 69, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 69, 63);  
box-shadow:4px 4px 4px 4px rgb(255, 69,  
63) }
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 83.065, 33.490 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 69, 63) }
```

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

```
.background{ background-color: rgb(255, 69,  
63) }
```

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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