

# Converting Colors

CIELCh(58, 81.360, 31.712)

Have a look what the booklet for  
CIELCh(58, 81.360, 31.712) contains.

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**Color**

**CIELCh(58, 81.334, 31.729)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF4545
RGB	255, 69, 69
RGB Percent	100%, 27%, 27%
CMY	0.0000, 0.7292, 0.7293
CMYK	0.00, 0.73, 0.73, 0.00
HSL	0°, 100%, 64%
HSV	0°, 73%, 100%
XYZ	44.4638, 25.9610, 8.3033
YIQ	124.6140, 110.8560, 39.4320

# Conversions

## Conversions Part 2

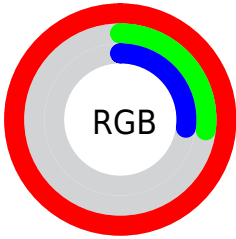
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 69, 69
Decimal	16729413
CIE Lab	58.00, 69.18, 42.77
CIE LCh	58, 81.334, 31.729
Yxy	25.9610, 0.5648, 0.3298
Android (android.graphics.Color)	4294919493 (0xFFFF4545)
YUV	124.6140, -27.4177, 114.3485
Hunter-Lab	50.9519, 66.6041, 26.0043

# Details

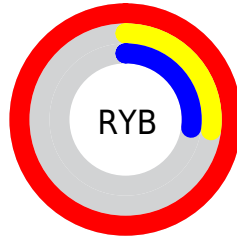
The CIELCh color **58, 81.334, 31.729** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **92, 46.263, 196.623**, and the grayscale version is **52, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 54.733, 31.087**, and **40, 78.281, 34.501** is the 20% darker color. If you saturate the color by 10%, you get **55, 92.296, 35.339**, and if you desaturate by 10%, it is **62, 69.346, 28.510**.

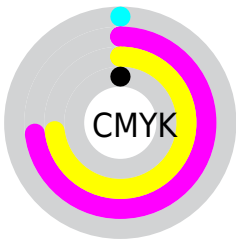
# Distribution



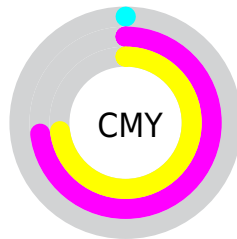
- Red (100%)
- Green (27%)
- Blue (27%)



- Red (100%)
- Yellow (27%)
- Blue (27%)



- Cyan (0%)
- Magenta (73%)
- Yellow (73%)
- Black (0%)



- Cyan (0%)
- Magenta (73%)
- Yellow (73%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 58, 81.334, 31.729 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, 81.334, 31.729 by changing the saturation by 10% instead.



 58, 81.334, 31.729

 58, 81.334, 31.729

 100, 81.334,  
31.729

 48, 81.334, 31.729

 78, 81.334, 31.729

 38, 81.334, 31.729

 88, 81.334, 31.729

 28, 81.334, 31.729

 98, 81.334, 31.729

 18, 81.334, 31.729

 8, 81.334, 31.729

 0, 81.334, 31.729

 58, 81.334, 31.729

 58, 81.334, 31.729

 55, 92.296, 35.339

 62, 69.346, 28.510

 54, 100.842,

 67, 57.082, 25.905

38.532

72, 44.968, 23.882

53, 104.574,  
40.001

78, 33.324, 22.336

84, 22.342, 21.154

91, 12.109, 20.231

98, 2.636, 19.342

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, 81.334, 31.729



92, 46.263, 196.623

# Rectangle

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



58, 81.334, 31.729



58, 81.334, 81.729



58, 81.334, 211.729



58, 81.334, 261.729

# Sweetspot

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



58, 81.313, 31.729



85, 21.360, 21.059



64, 103.516, 327.871



43, 14.504, 21.343



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, 81.313, 31.729



54, 97.083, 37.093



75, 66.235, 65.911



49, 5.253, 19.954



40, 84.228, 40.001



10, 33.365, 27.182





# Inverse Universe

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



92, 46.263, 196.623



91, 49.228, 196.455



65, 54.093, 272.998



52, 4.945, 198.974



70, 40.357, 196.406



24, 18.567, 196.404



# Previews

## White Background



This preview shows how the CIELCh color 58, 81.334, 31.729 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, 81.334, 31.729 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, 81.334, 31.729

## Background



This preview shows how black text looks on a background with the CIELCh color 58, 81.334, 31.729.



This preview shows how white text looks on a background with the CIELCh color 58, 81.334, 31.729.

# 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, 81.334, 31.729

### Protanopia

58, 26.784, 96.645

### Deuteranopia

58, 46.394, 80.610



**Tritanopia**  
58, 80.841, 31.050



# Trichromacy



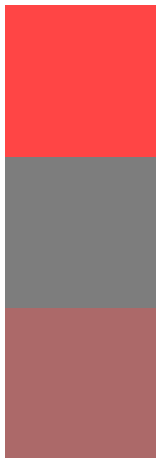
**Original Color**  
58, 81.334, 31.729

**Protanomaly**  
56, 39.392, 47.633

**Deuteranomaly**  
56, 53.954, 52.525

**Tritanomaly**  
58, 81.086, 31.392

# Monochromacy



**Original Color**  
58, 81.334, 31.729

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 29.151, 23.059

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 81.334, 31.729 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, 69)` looks like.

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

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, 69) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to CIELCh 58, 81.334, 31.729 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, 69) }
```

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

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

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, 69) colored shadow looks like.

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

# Background

The CSS property to change the background color of an element to CIELCh 58, 81.334, 31.729 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, 69) }
```

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

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

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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