

# Converting Colors

CIELCh(57, 80.185, 32.111)

Have a look what the booklet for  
CIELCh(57, 80.185, 32.111) contains.

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# Color

**CIELCh(57, 80.123, 31.996)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA4443
RGB	250, 68, 67
RGB Percent	98%, 27%, 26%
CMY	0.0189, 0.7325, 0.7367
CMYK	0.00, 0.73, 0.73, 0.02
HSL	0°, 95%, 62%
HSV	0°, 73%, 98%
XYZ	42.5878, 24.9227, 7.8976
YIQ	122.3040, 108.7930, 38.2730

# Conversions

## Conversions Part 2

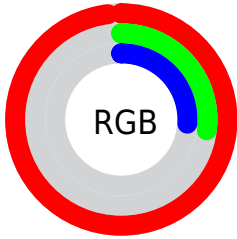
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	250, 68, 67
Decimal	16401475
CIE <sub>Lab</sub>	57.00, 67.95, 42.45
CIE <sub>LCh</sub>	57, 80.123, 31.996
Yxy	24.9227, 0.5648, 0.3305
Android (android.graphics.Color)	4294591555 (0xFFFA4443)
YUV	122.3040, -27.2649, 111.9894
Hunter-Lab	49.9226, 64.9094, 25.5663

# Details

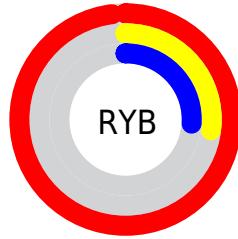
The CIELCh color **57, 80.123, 31.996** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **90, 45.335, 197.327**, and the grayscale version is **51, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 55.435, 31.626**, and **39, 76.760, 34.522** is the 20% darker color. If you saturate the color by 10%, you get **54, 90.965, 35.529**, and if you desaturate by 10%, it is **61, 68.319, 28.839**.

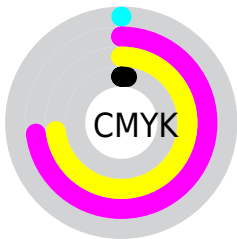
# Distribution



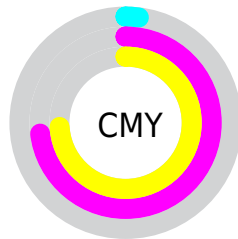
- Red (98%)
- Green (27%)
- Blue (26%)



- Red (98%)
- Yellow (27%)
- Blue (26%)



- Cyan (0%)
- Magenta (73%)
- Yellow (73%)
- Black (2%)



- Cyan (2%)
- Magenta (73%)
- Yellow (74%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 57, 80.123, 31.996 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 57, 80.123, 31.996 by changing the saturation by 10% instead.



 57, 80.123, 31.996

 57, 80.123, 31.996

 100, 80.123,  
31.996

 47, 80.123, 31.996

 77, 80.123, 31.996

 37, 80.123, 31.996

 87, 80.123, 31.996

 27, 80.123, 31.996

 97, 80.123, 31.996

 17, 80.123, 31.996

 7, 80.123, 31.996

 0, 80.123, 31.996

 57, 80.123, 31.996

 57, 80.123, 31.996

 54, 90.965, 35.529

 61, 68.319, 28.839

 53, 99.399, 38.629

 65, 56.246, 26.277

■ 52, 103.006,  
40.042

■ 71, 44.339, 24.287

■ 77, 32.904, 22.767

■ 83, 22.125, 21.605

■ 90, 12.086, 20.701

■ 96, 2.793, 19.844

■ 100, 1.670,  
199.696

# Harmonies

# Complementary

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



57, 80.123, 31.996



90, 45.335, 197.327

# Rectangle

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



57, 80.123, 31.996



57, 80.123, 81.996



57, 80.123, 211.996



57, 80.123, 261.996

# Sweetspot

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



57, 80.120, 31.998



85, 21.244, 21.490



63, 102.167, 327.875



43, 14.426, 21.767



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



57, 80.120, 31.998



54, 96.953, 37.190



73, 65.440, 65.885



49, 5.137, 20.410



39, 83.310, 40.059



9, 32.070, 26.434





# Inverse Universe

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



90, 45.335, 197.327



91, 48.859, 197.257



64, 53.432, 273.064



51, 4.835, 199.469



69, 39.631, 197.287



23, 17.949, 197.172



# Previews

## White Background



This preview shows how the CIELCh color 57, 80.123, 31.996 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 57, 80.123, 31.996 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 57, 80.123, 31.996

## Background



This preview shows how black text looks on a background with the CIELCh color 57, 80.123, 31.996.



This preview shows how white text looks on a background with the CIELCh color 57, 80.123, 31.996.

# 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

57, 80.123, 31.996

### Protanopia

57, 26.970, 95.632

### Deuteranopia

57, 45.398, 80.618



**Tritanopia**  
57, 79.381, 30.958



# Trichromacy



**Original Color**  
57, 80.123, 31.996

**Protanomaly**  
55, 39.132, 47.883

**Deuteranomaly**  
55, 52.979, 52.556

**Tritanomaly**  
57, 79.626, 31.308

# Monochromacy



**Original Color**  
57, 80.123, 31.996

**Achromatopsia**  
51, 0.007, 296.813

**Achromatomaly**  
51, 29.308, 23.156

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 57, 80.123, 31.996 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(250, 68, 67)` looks like.

```
.text, #text, p{  
    color:rgb(250, 68, 67)  
}
```

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(250, 68, 67) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 68, 67) }
```

## Border

The CSS property to change the border of an element to CIELCh 57, 80.123, 31.996 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(250, 68, 67) }
```

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

```
.border{ border-color:rgb(250, 68, 67) }
```

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

Here you see how a box with a 4 pixel `rgb(250, 68, 67)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 68, 67); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 68, 67);  
box-shadow:4px 4px 4px 4px rgb(250, 68,  
67) }
```

# Background

The CSS property to change the background color of an element to CIELCh 57, 80.123, 31.996 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 68, 67) }
```

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

```
.background{ background-color: rgb(250, 68,  
67) }
```

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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