

# Converting Colors

CIELCh(57, 75.980, 36.994)

Have a look what the booklet for  
CIELCh(57, 75.980, 36.994) contains.

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# Color

**CIELCh(57, 76.268, 37.007)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2503C
RGB	242, 80, 60
RGB Percent	95%, 31%, 24%
CMY	0.0512, 0.6864, 0.7649
CMYK	0.00, 0.67, 0.75, 0.05
HSL	7°, 87%, 59%
HSV	7°, 75%, 95%
XYZ	40.2778, 24.9227, 6.9569
YIQ	126.1580, 102.9720, 28.1240

# Conversions

## Conversions Part 2

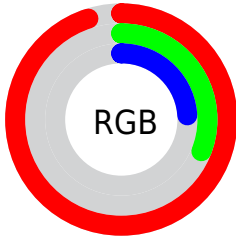
Format	Color
<a href="#">RYB</a>	242, 82, 60
Decimal	15880252
CIELab	57.00, 60.90, 45.91
CIELCh	57, 76.268, 37.007
Yxy	24.9227, 0.5582, 0.3454
Android (android.graphics.Color)	4294070332 (0xFFFF2503C)
YUV	126.1580, -32.6159, 101.5934
Hunter-Lab	49.9226, 56.6502, 26.6836

# Details

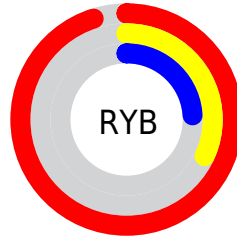
The CIELCh color **57, 76.268, 37.007** is a dark color, and the websafe version is hex **FF6633**. The color can be described as dark washed red. A complement of this color would be **82, 40.246, 212.399**, and the grayscale version is **53, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 54.866, 39.693**, and **37, 76.319, 36.963** is the 20% darker color. If you saturate the color by 10%, you get **54, 87.208, 39.119**, and if you desaturate by 10%, it is **61, 64.618, 34.999**.

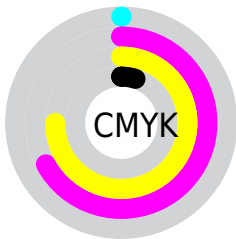
# Distribution



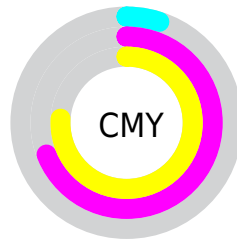
- Red (95%)
- Green (31%)
- Blue (24%)



- Red (95%)
- Yellow (32%)
- Blue (24%)



- Cyan (0%)
- Magenta (67%)
- Yellow (75%)
- Black (5%)



- Cyan (5%)
- Magenta (69%)
- Yellow (76%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 57, 76.268, 37.007 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, 76.268, 37.007 by changing the saturation by 10% instead.



 57, 76.268, 37.007

 57, 76.268, 37.007

 100, 76.268,  
37.007

 47, 76.268, 37.007

 77, 76.268, 37.007

 37, 76.268, 37.007

 87, 76.268, 37.007

 27, 76.268, 37.007

 97, 76.268, 37.007

 17, 76.268, 37.007

 7, 76.268, 37.007

 0, 76.268, 37.007

 57, 76.268, 37.007

 57, 76.268, 37.007

 54, 87.208, 39.119

 61, 64.618, 34.999

 52, 95.780, 40.606

 65, 53.030, 33.337

51, 98.753, 41.096

70, 41.875, 32.055

75, 31.347, 31.109

81, 21.537, 30.433

86, 12.463, 29.957

92, 4.099, 29.560

98, 3.608, 209.724

99, 4.502, 199.267

# Harmonies

# Complementary

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



57, 76.268, 37.007



82, 40.246, 212.399

# Rectangle

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



57, 76.268, 37.007



57, 76.268, 87.007



57, 76.268, 217.007



57, 76.268, 267.007

# Sweetspot

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



57, 76.265, 37.010



86, 20.315, 30.316



59, 94.380, 331.537



44, 14.275, 30.518



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, 76.265, 37.010



56, 95.711, 40.014



75, 66.132, 74.656



47, 4.509, 29.739



39, 79.978, 41.352



9, 27.614, 29.893



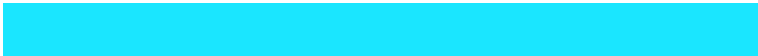


# Inverse Universe

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



82, 40.246, 212.399



84, 43.936, 214.680



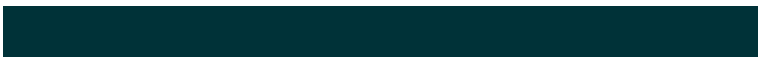
56, 63.020, 283.301



49, 4.239, 209.576



61, 34.633, 216.191



18, 15.289, 213.111



# Previews

## White Background



This preview shows how the CIELCh color 57, 76.268, 37.007 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, 76.268, 37.007 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, 76.268, 37.007**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 57, 76.268, 37.007.



This preview shows how white text looks on a background with the CIELCh color 57, 76.268, 37.007.

# 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, 76.268, 37.007

### Protanopia

57, 33.533, 95.328

### Deuteranopia

57, 48.678, 81.206



**Tritanopia**  
57, 72.044, 28.515



# Trichromacy



**Original Color**  
57, 76.268, 37.007

**Protanomaly**  
55, 42.090, 57.940

**Deuteranomaly**  
56, 54.376, 57.899

**Tritanomaly**  
57, 73.668, 31.910

# Monochromacy



**Original Color**  
57, 76.268, 37.007

**Achromatopsia**  
53, 0.007, 296.813

**Achromatomaly**  
52, 26.405, 31.057

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 57, 76.268, 37.007 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(242, 80, 60)` looks like.

```
.text, #text, p{  
    color:rgb(242, 80, 60)  
}
```

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(242, 80, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 80, 60) }
```

## Border

The CSS property to change the border of an element to CIELCh 57, 76.268, 37.007 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(242, 80, 60) }
```

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

```
.border{ border-color:rgb(242, 80, 60) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 80, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 80, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 80, 60);  
box-shadow:4px 4px 4px 4px rgb(242, 80,  
60) }
```

# Background

The CSS property to change the background color of an element to CIELCh 57, 76.268, 37.007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 80, 60) }
```

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

```
.background{ background-color: rgb(242, 80,  
60) }
```

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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