

# Converting Colors

CIELCh(53, 82.104, 38.827)

Have a look what the booklet for  
CIELCh(53, 82.104, 38.827) contains.

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**Color**

**CIELCh(53, 82.024, 38.759)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E93E28
RGB	233, 62, 40
RGB Percent	91%, 24%, 16%
CMY	0.0845, 0.7551, 0.8419
CMYK	0.00, 0.73, 0.83, 0.08
HSL	7°, 82%, 54%
HSV	7°, 83%, 92%
XYZ	35.8841, 21.0462, 4.2072
YIQ	110.6210, 108.9780, 29.4100

# Conversions

## Conversions Part 2

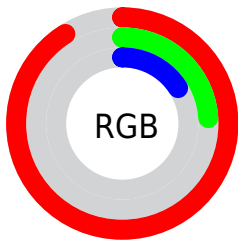
Format	Color
R <sub>Y</sub> B	233, 65, 40
Decimal	15285800
CIE Lab	53.00, 63.96, 51.35
CIE LCh	53, 82.024, 38.759
Yxy	21.0462, 0.5869, 0.3442
Android (android.graphics.Color)	4293475880 (0xFFE93E28)
YUV	110.6210, -34.8162, 107.3264
Hunter-Lab	45.8761, 59.3389, 26.6759

# Details

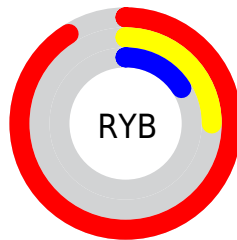
The CIELCh color **53, 82.024, 38.759** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **78, 40.240, 214.220**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **66, 64.376, 40.850**, and **35, 76.349, 39.859** is the 20% darker color. If you saturate the color by 10%, you get **51, 91.216, 40.451**, and if you desaturate by 10%, it is **56, 71.090, 36.697**.

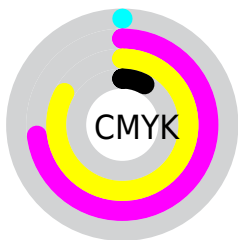
# Distribution



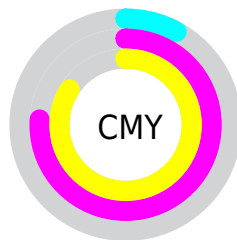
- Red (91%)
- Green (24%)
- Blue (16%)



- Red (91%)
- Yellow (25%)
- Blue (16%)



- Cyan (0%)
- Magenta (73%)
- Yellow (83%)
- Black (8%)



- Cyan (8%)
- Magenta (76%)
- Yellow (84%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 53, 82.024, 38.759 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 53, 82.024, 38.759 by changing the saturation by 10% instead.



 53, 82.024, 38.759

 53, 82.024, 38.759

 100, 82.024,  
38.759

 43, 82.024, 38.759

 73, 82.024, 38.759

 33, 82.024, 38.759

 83, 82.024, 38.759

 23, 82.024, 38.759

 93, 82.024, 38.759

 13, 82.024, 38.759

 3, 82.024, 38.759

 0, 82.024, 38.759

 53, 82.024, 38.759

 53, 82.024, 38.759

 51, 91.216, 40.451

 56, 71.090, 36.697

 50, 95.968, 41.200

 60, 59.746, 34.822

64, 48.589, 33.307

69, 37.923, 32.156

74, 27.901, 31.317

80, 18.587, 30.725

85, 9.982, 30.311

91, 2.052, 29.832

97, 5.257, 210.130

# Harmonies

# Complementary

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



53, 82.024, 38.759



78, 40.240, 214.220

# Rectangle

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



53, 82.024, 38.759



53, 82.024, 88.759



53, 82.024, 218.759



53, 82.024, 268.759

# Sweetspot

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



53, 82.021, 38.761



85, 22.184, 30.848



56, 95.922, 331.899



43, 15.359, 31.050



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



53, 82.021, 38.761



54, 102.087, 41.015



70, 69.672, 73.240



46, 4.413, 30.197



38, 79.032, 41.451



8, 26.286, 29.074





# Inverse Universe

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



78, 40.240, 214.220



83, 44.114, 217.414



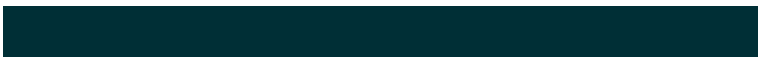
51, 67.698, 286.158



48, 4.149, 210.074



60, 34.177, 217.124



17, 14.806, 213.724



# Previews

## White Background



This preview shows how the CIELCh color 53, 82.024, 38.759 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 53, 82.024, 38.759 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 53, 82.024, 38.759**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 53, 82.024, 38.759.



This preview shows how white text looks on a background with the CIELCh color 53, 82.024, 38.759.

# 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

53, 82.024, 38.759

### Protanopia

53, 39.465, 95.661

### Deuteranopia

53, 54.873, 82.749



**Tritanopia**  
53, 76.868, 31.387



# Trichromacy



**Original Color**  
53, 82.024, 38.759

**Protanomaly**  
51, 47.451, 59.782

**Deuteranomaly**  
51, 60.612, 59.504

**Tritanomaly**  
53, 78.754, 34.370

# Monochromacy



**Original Color**  
53, 82.024, 38.759

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
46, 29.315, 32.163

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 53, 82.024, 38.759 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(233, 62, 40)` looks like.

```
.text, #text, p{  
    color:rgb(233, 62, 40)  
}
```

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(233, 62, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 62, 40) }
```

## Border

The CSS property to change the border of an element to CIELCh 53, 82.024, 38.759 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(233, 62, 40) }
```

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

```
.border{ border-color:rgb(233, 62, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 62, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 62, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 62, 40);  
box-shadow:4px 4px 4px 4px rgb(233, 62,  
40) }
```

# Background

The CSS property to change the background color of an element to CIELCh 53, 82.024, 38.759 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 62, 40) }
```

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

```
.background{ background-color: rgb(233, 62,  
40) }
```

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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