

# Converting Colors

CIELCh(51, 98.695, 38.591)

Have a look what the booklet for  
CIELCh(51, 98.695, 38.591) contains.

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# Color

**CIELCh(51, 98.875, 38.595)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F4030D
RGB	244, 3, 13
RGB Percent	96%, 1%, 5%
CMY	0.0444, 0.9883, 0.9502
CMYK	0.00, 0.99, 0.95, 0.04
HSL	358°, 98%, 48%
HSV	358°, 99%, 96%
XYZ	37.3014, 19.2686, 2.1239
YIQ	76.1990, 140.4260, 54.2020

# Conversions

## Conversions Part 2

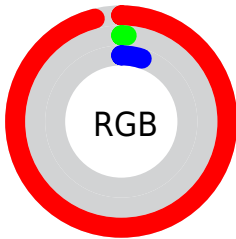
<b>Format</b>	<b>Color</b>
<b>RYB</b>	244, 3, 13
Decimal	15991565
CIELab	51.00, 77.28, 61.68
CIELCh	51, 98.875, 38.595
Yxy	19.2686, 0.6355, 0.3283
Android (android.graphics.Color)	4294181645 (0xFFFF4030D)
YUV	76.1990, -31.1571, 147.1615
Hunter-Lab	43.8960, 74.8655, 27.8585

# Details

The CIELCh color **51, 98.875, 38.595** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **87, 49.974, 190.353**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 76.781, 39.427**, and **37, 79.473, 39.961** is the 20% darker color. If you saturate the color by 10%, you get **51, 99.471, 38.847**, and if you desaturate by 10%, it is **52, 92.102, 35.301**.

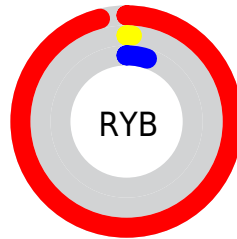
# Distribution



Red (96%)

Green (1%)

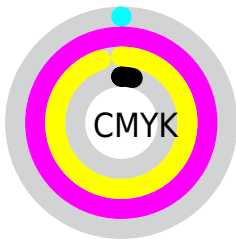
Blue (5%)



Red (96%)

Yellow (1%)

Blue (5%)

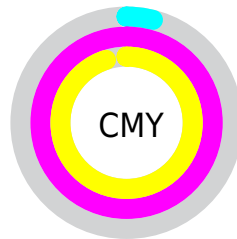


Cyan (0%)

Magenta (99%)

Yellow (95%)

Black (4%)



Cyan (4%)

Magenta (99%)

Yellow (95%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 51, 98.875, 38.595 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 51, 98.875, 38.595 by changing the saturation by 10% instead.



 51, 98.875, 38.595

 51, 98.875, 38.595

 100, 98.875,  
38.595

 41, 98.875, 38.595

 71, 98.875, 38.595

 31, 98.875, 38.595

 81, 98.875, 38.595

 21, 98.875, 38.595

 91, 98.875, 38.595

 11, 98.875, 38.595

 1, 98.875, 38.595

 0, 98.875, 38.595

 51, 98.875, 38.595

 51, 98.875, 38.595

 51, 99.471, 38.847

 52, 92.102, 35.301

 54, 82.749, 31.288

■ 57, 72.139, 27.569

■ 61, 60.911, 24.487

■ 66, 49.500, 22.054

■ 72, 38.270, 20.167

■ 78, 27.487, 18.703

■ 84, 17.306, 17.553

■ 90, 7.793, 16.613

# Harmonies

# Complementary

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



51, 98.875, 38.595



87, 49.974, 190.353

# Rectangle

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



51, 98.875, 38.595



51, 98.875, 88.595



51, 98.875, 218.595



51, 98.875, 268.595

# Sweetspot

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



51, 98.871, 38.597



80, 29.867, 18.873



56, 111.736, 326.252



40, 20.666, 19.466



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



51, 98.871, 38.597



53, 103.036, 38.910



62, 83.969, 56.262



48, 5.081, 16.676



39, 80.798, 38.406



8, 30.770, 23.394





# Inverse Universe

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



51, 98.871, 38.597



53, 103.036, 38.910



56, 63.307, 279.033



48, 5.081, 16.676



39, 80.798, 38.406



8, 30.770, 23.394



# Previews

## White Background



This preview shows how the CIELCh color 51, 98.875, 38.595 looks on a white background.

## Color Contrast Check

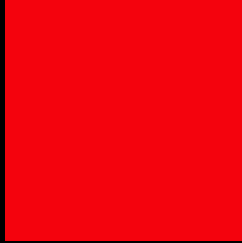
Large Text (above 18pt) WCAG AA ✓ Pass

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 51, 98.875, 38.595 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 51, 98.875, 38.595**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 51, 98.875, 38.595.



This preview shows how white text looks on a background with the CIELCh color 51, 98.875, 38.595.

# 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

51, 98.924, 38.562

### Protanopia

51, 47.279, 95.351

### Deuteranopia

51, 57.956, 84.152



**Tritanopia**  
51, 99.109, 40.877



# Trichromacy



**Original Color**  
51, 98.924, 38.562

**Protanomaly**  
46, 59.255, 51.692

**Deuteranomaly**  
47, 69.668, 52.860

**Tritanomaly**  
51, 99.156, 39.936

# Monochromacy



**Original Color**  
51, 98.924, 38.562

**Achromatopsia**  
32, 0.005, 296.813

**Achromatomaly**  
34, 41.746, 24.934

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 98.875, 38.595 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(244, 3, 13)` looks like.

```
.text, #text, p{  
    color:rgb(244, 3, 13)  
}
```

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(244, 3, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 3, 13) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 98.875, 38.595 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(244, 3, 13) }
```

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

```
.border{ border-color:rgb(244, 3, 13) }
```

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

Here you see how a box with a 4 pixel rgb(244, 3, 13) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 3, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 3, 13);  
box-shadow:4px 4px 4px 4px rgb(244, 3, 13)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 98.875, 38.595 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 3, 13) }
```

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

```
.background{ background-color: rgb(244, 3,  
13) }
```

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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