

Converting Colors

CIELCh(50, 99.800, 40.127)

Have a look what the booklet for
CIELCh(50, 99.800, 40.127) contains.

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Color

CIELCh(50, 99.518, 40.032)

Conversions

Conversions Part 1

Format	Color
Hex	EF0200
RGB	239, 2, 0
RGB Percent	94%, 1%, 0%
CMY	0.0620, 0.9934, 0.9994
CMYK	0.00, 0.99, 1.00, 0.06
HSL	0°, 100%, 47%
HSV	0°, 100%, 94%
XYZ	35.6782, 18.4187, 1.6791
YIQ	72.6350, 141.8940, 49.6220

Conversions

Conversions Part 2

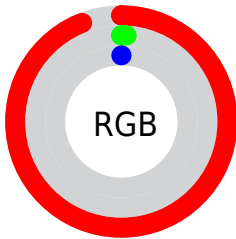
Format	Color
R_{YB}	239, 2, 0
Decimal	15663616
CIE Lab	50.00, 76.20, 64.01
CIE LCh	50, 99.518, 40.032
Yxy	18.4187, 0.6397, 0.3302
Android (android.graphics.Color)	4293853696 (0xFFEF0200)
YUV	72.6350, -35.8091, 145.9021
Hunter-Lab	42.9170, 73.2878, 27.7222

Details

The CIELCh color **50, 99.518, 40.032** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark washed red. A complement of this color would be **86, 47.301, 197.387**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 79.529, 41.190**, and **36, 77.749, 39.913** is the 20% darker color. If you saturate the color by 10%, you get **50, 99.549, 40.048**, and if you desaturate by 10%, it is **51, 93.659, 37.700**.

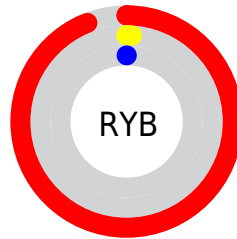
Distribution



Red (94%)

Green (1%)

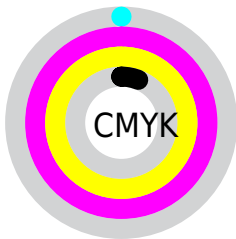
Blue (0%)



Red (94%)

Yellow (1%)

Blue (0%)

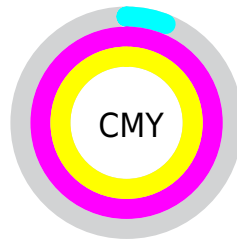


Cyan (0%)

Magenta (99%)

Yellow (100%)

Black (6%)



Cyan (6%)

Magenta (99%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 99.518, 40.032 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 50, 99.518, 40.032 by changing the saturation by 10% instead.

■ 50, 99.518, 40.032

■ 50, 99.518, 40.032

■ 100, 99.518,
40.032

■ 40, 99.518, 40.032

■ 70, 99.518, 40.032

■ 30, 99.518, 40.032

■ 80, 99.518, 40.032

■ 20, 99.518, 40.032

■ 90, 99.518, 40.032

■ 10, 99.518, 40.032

■ 0, 99.518, 40.032

■ 50, 99.518, 40.032

■ 50, 99.518, 40.032

■ 50, 99.549, 40.048

■ 51, 93.659, 37.700

■ 53, 84.482, 34.328

■ 56, 73.602, 30.886

60, 62.076, 27.935

64, 50.450, 25.585

70, 39.098, 23.772

76, 28.272, 22.388

82, 18.114, 21.327

88, 8.676, 20.487

Harmonies

Complementary

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



50, 99.518, 40.032



86, 47.301, 197.387

Rectangle

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



50, 99.518, 40.032



50, 99.518, 90.032



50, 99.518, 220.032



50, 99.518, 270.032

Sweetspot

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



50, 99.514, 40.034



80, 29.861, 22.409



57, 110.089, 328.232



40, 20.693, 22.951



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



50, 99.514, 40.034



53, 104.499, 40.045



63, 81.455, 59.943



47, 4.961, 20.451



38, 81.614, 40.063



8, 29.695, 24.142

Inverse Universe

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



86, 47.301, 197.387



91, 49.651, 197.391



51, 69.889, 284.834



49, 4.671, 199.520



67, 38.801, 197.371



20, 16.960, 197.233

Previews

White Background



This preview shows how the CIELCh color 50, 99.518, 40.032 looks on a white background.

Color Contrast Check

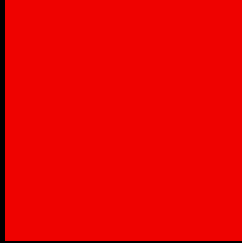
Large Text (above 18pt) WCAG AA ✓ Pass

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 50, 99.518, 40.032 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 50, 99.518, 40.032

Background



This preview shows how black text looks on a background with the CIELCh color 50, 99.518, 40.032.



This preview shows how white text looks on a background with the CIELCh color 50, 99.518, 40.032.

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

50, 99.466, 40.064

Protanopia

51, 48.402, 95.291

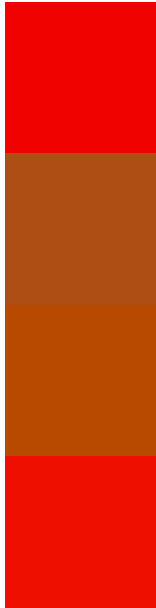
Deuteranopia

51, 57.172, 84.343



Tritanopia
50, 97.582, 40.861

Trichromacy



Original Color
50, 99.466, 40.064

Protanomaly
45, 61.000, 53.553

Deuteranomaly
46, 69.955, 53.293

Tritanomaly
50, 98.443, 40.507

Monochromacy



Original Color
50, 99.466, 40.064

Achromatopsia
31, 0.005, 296.813

Achromatomaly
32, 41.853, 28.153

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 99.518, 40.032 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(239, 2, 0)` looks like.

```
.text, #text, p{  
    color:rgb(239, 2, 0)  
}
```

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(239, 2, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 2, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 99.518, 40.032 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(239, 2, 0) }
```

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

```
.border{ border-color:rgb(239, 2, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 2, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 2, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(239, 2, 0); box-shadow:4px  
4px 4px 4px rgb(239, 2, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 99.518, 40.032 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 2, 0) }
```

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

```
.background{ background-color: rgb(239, 2,  
0) }
```

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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