

Converting Colors

CIELCh(50, 100.120, 40.009)

Have a look what the booklet for
CIELCh(50, 100.120, 40.009)
contains.

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Color

CIELCh(50, 99.884, 40.000)

Conversions

Conversions Part 1

Format	Color
Hex	F00000
RGB	240, 0, 0
RGB Percent	94%, 0%, 0%
CMY	0.0605, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.06
HSL	0°, 100%, 47%
HSV	0°, 100%, 94%
XYZ	35.7721, 18.4187, 1.6597
YIQ	71.7600, 143.0400, 50.8800

Conversions

Conversions Part 2

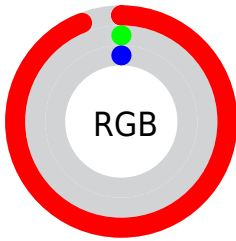
Format	Color
RYB	240, 0, 0
Decimal	15728640
CIELab	50.00, 76.52, 64.20
CIELCh	50, 99.884, 40.000
Yxy	18.4187, 0.6405, 0.3298
Android (android.graphics.Color)	4293918720 (0xFFFF0000)
YUV	71.7600, -35.3777, 147.5465
Hunter-Lab	42.9170, 73.6783, 27.7490

Details

The CIELCh color **50, 99.884, 40.000** 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 **86, 47.802, 196.386**, 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, 78.096, 39.924** is the 20% darker color. If you saturate the color by 10%, you get **50, 99.749, 40.000**, and if you desaturate by 10%, it is **51, 93.953, 37.627**.

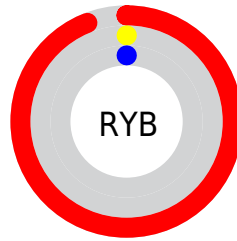
Distribution



Red (94%)

Green (0%)

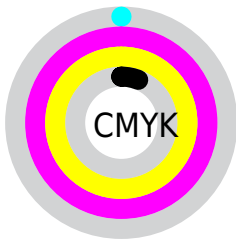
Blue (0%)



Red (94%)

Yellow (0%)

Blue (0%)

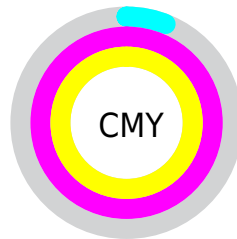


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (6%)



Cyan (6%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 99.884, 40.000 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, 99.884, 40.000 by changing the saturation by 10% instead.

■ 50, 99.884, 40.000

■ 50, 99.884, 40.000

■ 100, 99.884,
40.000

■ 40, 99.884, 40.000

■ 70, 99.884, 40.000

■ 30, 99.884, 40.000

■ 80, 99.884, 40.000

■ 20, 99.884, 40.000

■ 90, 99.884, 40.000

■ 10, 99.884, 40.000

■ 0, 99.884, 40.000

■ 50, 99.884, 40.000

■ 50, 99.884, 40.000

■ 50, 99.749, 40.000

■ 51, 93.953, 37.627

■ 53, 84.855, 34.173

■ 56, 74.018, 30.645

60, 62.499, 27.621

64, 50.844, 25.213

70, 39.439, 23.355

76, 28.545, 21.936

82, 18.313, 20.845

88, 8.801, 19.980

Harmonies

Complementary

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



50, 99.884, 40.000



86, 47.802, 196.386

Rectangle

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



50, 99.884, 40.000



50, 99.884, 90.000



50, 99.884, 220.000



50, 99.884, 270.000

Sweetspot

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



50, 99.749, 40.000



80, 30.038, 21.948



57, 110.233, 328.233



40, 20.813, 22.504



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, 99.749, 40.000



53, 104.576, 40.000



63, 81.587, 59.922



47, 4.993, 19.939



38, 81.703, 39.995



8, 29.836, 23.806

Inverse Universe

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



86, 47.802, 196.386



91, 50.115, 196.386



51, 70.026, 284.866



49, 4.701, 198.966



68, 39.157, 196.386



21, 17.094, 196.386

Previews

White Background



This preview shows how the CIELCh color 50, 99.884, 40.000 looks on a white background.

Color Contrast Check

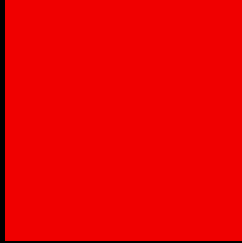
Large Text (above 18pt) WCAG AA ✓ Pass

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, 99.884, 40.000 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, 99.884, 40.000

Background



This preview shows how black text looks on a background with the CIELCh color 50, 99.884, 40.000.



This preview shows how white text looks on a background with the CIELCh color 50, 99.884, 40.000.

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, 99.884, 40.000

Protanopia

51, 48.402, 95.291

Deuteranopia

51, 57.172, 84.343



Tritanopia
50, 97.906, 40.852

Trichromacy



Original Color
50, 99.884, 40.000



Protanomaly
45, 61.177, 53.083



Deuteranomaly
46, 70.162, 52.934



Tritanomaly
50, 98.827, 40.461

Monochromacy



Original Color
50, 99.884, 40.000



Achromatopsia
31, 0.005, 296.813



Achromatomaly
32, 42.394, 28.359

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 99.884, 40.000 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(240, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(240, 0, 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(240, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 99.884, 40.000 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(240, 0, 0) }
```

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

```
.border{ border-color:rgb(240, 0, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(240, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(240, 0, 0); box-shadow:4px  
4px 4px 4px rgb(240, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 99.884, 40.000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 0, 0) }
```

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

```
.background{ background-color: rgb(240, 0,  
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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