

Converting Colors

CIELCh(48, 96.533, 39.974)

Have a look what the booklet for
CIELCh(48, 96.533, 39.974) contains.

CIELCh(48, 96.671, 40.035)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(48, 96.671, 40.035)

Conversions

Conversions Part 1

Format	Color
Hex	E60000
RGB	230, 0, 0
RGB Percent	90%, 0%, 0%
CMY	0.0989, 0.9985, 1.0000
CMYK	0.00, 1.00, 1.00, 0.10
HSL	0°, 100%, 45%
HSV	0°, 100%, 90%
XYZ	32.5671, 16.7945, 1.5204
YIQ	68.7700, 137.0800, 48.7600

Conversions

Conversions Part 2

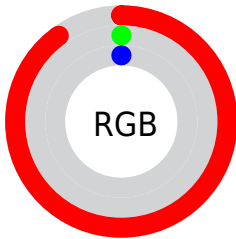
Format	Color
RYB	230, 0, 0
Decimal	15073280
CIELab	48.00, 74.02, 62.18
CIELCh	48, 96.671, 40.035
Yxy	16.7945, 0.6401, 0.3301
Android (android.graphics.Color)	4293263360 (0xFFE60000)
YUV	68.7700, -33.9036, 141.3987
Hunter-Lab	40.9810, 70.1350, 26.4871

Details

The CIELCh color **48, 96.671, 40.035** is a dark color, and the websafe version is hex **FF0000**, and the color name is **electric red**. The color can be described as dark washed red. A complement of this color would be **83, 46.206, 196.651**, and the grayscale version is **29, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 80.236, 40.915**, and **34, 74.931, 39.792** is the 20% darker color. If you saturate the color by 10%, you get **48, 96.636, 40.014**, and if you desaturate by 10%, it is **49, 90.853, 37.587**.

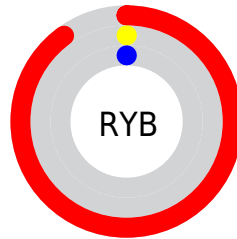
Distribution



Red (90%)

Green (0%)

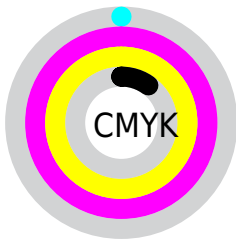
Blue (0%)



Red (90%)

Yellow (0%)

Blue (0%)

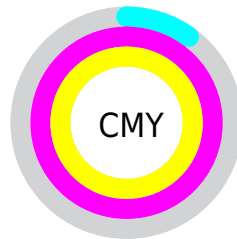


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (10%)



Cyan (10%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 96.671, 40.035 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 48, 96.671, 40.035 by changing the saturation by 10% instead.

 48, 96.671, 40.035

 48, 96.671, 40.035

 100, 96.671,
40.035

 38, 96.671, 40.035

 68, 96.671, 40.035

 28, 96.671, 40.035

 78, 96.671, 40.035

 18, 96.671, 40.035

 88, 96.671, 40.035

 8, 96.671, 40.035

 98, 96.671, 40.035

 0, 96.671, 40.035

 48, 96.671, 40.035

 48, 96.671, 40.035

 48, 96.636, 40.014

 49, 90.853, 37.587

 51, 81.988, 34.152

■ 53, 71.481, 30.661

■ 57, 60.334, 27.671

■ 62, 49.071, 25.291

■ 67, 38.058, 23.454

■ 73, 27.545, 22.049

■ 79, 17.672, 20.970

■ 85, 8.493, 20.114

Harmonies

Complementary

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



48, 96.671, 40.035



83, 46.206, 196.651

Rectangle

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



48, 96.671, 40.035



48, 96.671, 90.035



48, 96.671, 220.035



48, 96.671, 270.035

Sweetspot

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



48, 96.636, 40.014



80, 29.991, 22.070



55, 106.817, 328.233



40, 20.781, 22.623



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



48, 96.636, 40.014



53, 104.555, 40.012



61, 79.019, 60.019



45, 4.808, 20.071



37, 79.960, 39.991



6, 27.072, 21.842

Inverse Universe

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



83, 46.206, 196.651



91, 49.990, 196.652



49, 67.695, 284.752



47, 4.529, 199.116



66, 38.253, 196.647



18, 16.058, 196.606

Previews

White Background



This preview shows how the CIELCh color 48, 96.671, 40.035 looks on a white background.

Color Contrast Check

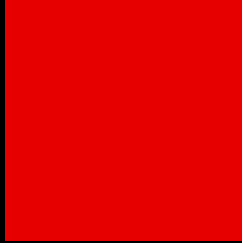
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIELCh color 48, 96.671, 40.035 looks on a black 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

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 48, 96.671, 40.035

Background



This preview shows how black text looks on a background with the CIELCh color 48, 96.671, 40.035.



This preview shows how white text looks on a background with the CIELCh color 48, 96.671, 40.035.

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

48, 96.726, 40.000

Protanopia

49, 46.673, 95.543

Deuteranopia

49, 55.471, 84.138



Tritanopia
48, 94.747, 40.878

Trichromacy



Original Color
48, 96.726, 40.000

Protanomaly
43, 58.805, 53.409

Deuteranomaly
44, 67.777, 53.127

Tritanomaly
48, 95.618, 40.508

Monochromacy



Original Color
48, 96.726, 40.000

Achromatopsia
29, 0.005, 296.813

Achromatomaly
31, 40.759, 28.262

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 96.671, 40.035 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(230, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(230, 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(230, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 96.671, 40.035 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(230, 0, 0) }
```

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

```
.border{ border-color:rgb(230, 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(230, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(230, 0, 0); box-shadow:4px  
4px 4px 4px rgb(230, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 96.671, 40.035 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 0, 0) }
```

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

```
.background{ background-color: rgb(230, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor