

Converting Colors

CIELCh(48, 93.323, 38.848)

Have a look what the booklet for
CIELCh(48, 93.323, 38.848) contains.

CIELCh(48, 93.297, 38.869)	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, 93.297, 38.869)

Conversions

Conversions Part 1

Format	Color
Hex	E40D0C
RGB	228, 13, 12
RGB Percent	89%, 5%, 5%
CMY	0.1061, 0.9495, 0.9532
CMYK	0.00, 0.94, 0.95, 0.11
HSL	0°, 90%, 47%
HSV	0°, 95%, 89%
XYZ	32.1842, 16.7945, 1.8914
YIQ	77.1710, 128.4610, 45.2690

Conversions

Conversions Part 2

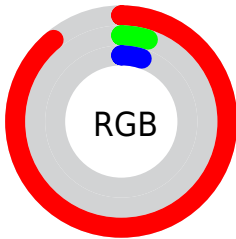
Format	Color
RYB	228, 13, 12
Decimal	14945548
CIELab	48.00, 72.64, 58.55
CIElCh	48, 93.297, 38.869
Yxy	16.7945, 0.6327, 0.3301
Android (android.graphics.Color)	4293135628 (0xFFE40D0C)
YUV	77.1710, -32.1293, 132.2770
Hunter-Lab	40.9810, 68.4669, 25.9503

Details

The CIELCh color **48, 93.297, 38.869** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **82, 45.479, 197.051**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 77.574, 39.744**, and **33, 74.214, 39.752** is the 20% darker color. If you saturate the color by 10%, you get **48, 96.017, 40.035**, and if you desaturate by 10%, it is **49, 85.885, 35.900**.

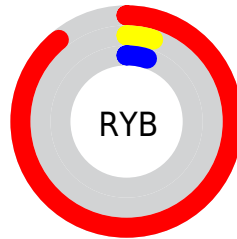
Distribution



Red (89%)

Green (5%)

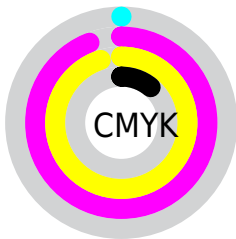
Blue (5%)



Red (89%)

Yellow (5%)

Blue (5%)

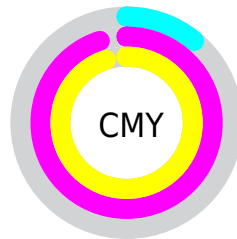


Cyan (0%)

Magenta (94%)

Yellow (95%)

Black (11%)



Cyan (11%)

Magenta (95%)

Yellow (95%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 93.297, 38.869 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, 93.297, 38.869 by changing the saturation by 10% instead.

 48, 93.297, 38.869

 48, 93.297, 38.869

 100, 93.297,
38.869

 38, 93.297, 38.869

 68, 93.297, 38.869

 28, 93.297, 38.869

 78, 93.297, 38.869

 18, 93.297, 38.869

 88, 93.297, 38.869

 8, 93.297, 38.869

 98, 93.297, 38.869

 0, 93.297, 38.869

 48, 93.297, 38.869

 48, 93.297, 38.869

 48, 96.017, 40.035

 49, 85.885, 35.900

 52, 76.013, 32.362

■ 55, 65.145, 29.135

■ 59, 53.957, 26.495

■ 64, 42.871, 24.434

■ 70, 32.184, 22.854

■ 75, 22.084, 21.646

■ 81, 12.658, 20.709

■ 88, 3.923, 19.897

Harmonies

Complementary

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



48, 93.297, 38.869



82, 45.479, 197.051

Rectangle

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



48, 93.297, 38.869



48, 93.297, 88.869



48, 93.297, 218.869



48, 93.297, 268.869

Sweetspot

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



48, 93.294, 38.871



81, 27.712, 22.023



54, 105.243, 328.203



41, 19.444, 22.554



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, 93.294, 38.871



53, 104.523, 40.031



62, 76.072, 61.499



45, 4.796, 20.284



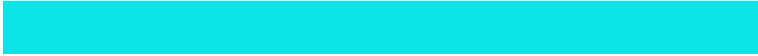
37, 79.924, 40.021



6, 27.021, 21.973

Inverse Universe

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



82, 45.479, 197.051



91, 49.797, 197.070



51, 63.678, 282.382



47, 4.517, 199.346



66, 38.108, 197.055



18, 16.007, 196.951

Previews

White Background



This preview shows how the CIELCh color 48, 93.297, 38.869 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, 93.297, 38.869 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, 93.297, 38.869

Background



This preview shows how black text looks on a background with the CIELCh color 48, 93.297, 38.869.



This preview shows how white text looks on a background with the CIELCh color 48, 93.297, 38.869.

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, 93.297, 38.869

Protanopia

49, 45.416, 96.104

Deuteranopia

48, 55.293, 84.612



Tritanopia
48, 94.421, 40.887

Trichromacy



Original Color
48, 93.297, 38.869

Protanomaly
44, 55.773, 54.747

Deuteranomaly
44, 65.524, 54.672

Tritanomaly
48, 93.953, 40.169

Monochromacy



Original Color
48, 93.297, 38.869

Achromatopsia
33, 0.005, 296.813

Achromatomaly
34, 37.798, 27.601

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 93.297, 38.869 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(228, 13, 12)` looks like.

```
.text, #text, p{  
    color:rgb(228, 13, 12)  
}
```

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(228, 13, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 13, 12) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 93.297, 38.869 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(228, 13, 12) }
```

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

```
.border{ border-color:rgb(228, 13, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 13, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 13, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 13, 12);  
box-shadow:4px 4px 4px 4px rgb(228, 13,  
12) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 93.297, 38.869 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 13, 12) }
```

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

```
.background{ background-color: rgb(228, 13,  
12) }
```

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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