

Converting Colors

CIELCh(42, 87.578, 40.011)

Have a look what the booklet for
CIELCh(42, 87.578, 40.011) contains.

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Color

CIELCh(42, 87.740, 40.000)

Conversions

Conversions Part 1

Format	Color
Hex	CA0000
RGB	202, 0, 0
RGB Percent	79%, 0%, 0%
CMY	0.2090, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.21
HSL	0°, 100%, 40%
HSV	0°, 100%, 79%
XYZ	24.2706, 12.5000, 1.1282
YIQ	60.3980, 120.3920, 42.8240

Conversions

Conversions Part 2

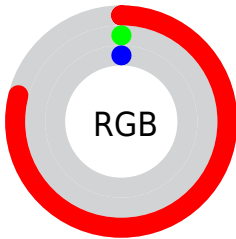
Format	Color
RYB	202, 0, 0
Decimal	13238272
CIELab	42.00, 67.21, 56.40
CIElCh	42, 87.740, 40.000
Yxy	12.5000, 0.6404, 0.3298
Android (android.graphics.Color)	4291428352 (0xFFCA0000)
YUV	60.3980, -29.7762, 124.1850
Hunter-Lab	35.3553, 60.6641, 22.8568

Details

The CIELCh color **42, 87.740, 40.000** 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 **74, 42.003, 196.386**, and the grayscale version is **26, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 82.622, 40.438**, and **28, 64.854, 38.894** is the 20% darker color. If you saturate the color by 10%, you get **42, 87.647, 40.000**, and if you desaturate by 10%, it is **43, 81.923, 37.341**.

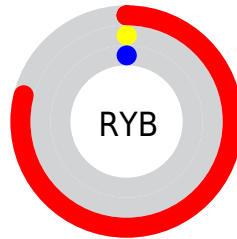
Distribution



Red (79%)

Green (0%)

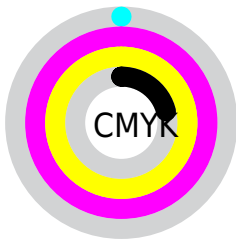
Blue (0%)



Red (79%)

Yellow (0%)

Blue (0%)

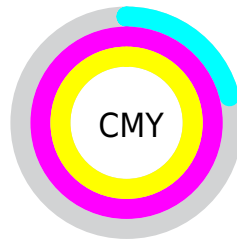


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (21%)



Cyan (21%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 42, 87.740, 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 42, 87.740, 40.000 by changing the saturation by 10% instead.

■ 42, 87.740, 40.000 ■ 42, 87.740, 40.000

■ 100, 87.740, 40.000 ■ 32, 87.740, 40.000

■ 62, 87.740, 40.000 ■ 22, 87.740, 40.000

■ 72, 87.740, 40.000 ■ 12, 87.740, 40.000

■ 82, 87.740, 40.000 ■ 2, 87.740, 40.000

■ 92, 87.740, 40.000 ■ 0, 87.740, 40.000

■ 42, 87.740, 40.000 ■ 42, 87.740, 40.000

■ 42, 87.647, 40.000 ■ 43, 81.923, 37.341

■ 45, 73.817, 33.873

■ 47, 64.324, 30.408

■ 51, 54.284, 27.455

■ 55, 44.153, 25.105

■ 60, 34.250, 23.289

■ 65, 24.796, 21.898

■ 70, 15.914, 20.825

■ 76, 7.651, 19.972

Harmonies

Complementary

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



42, 87.740, 40.000



74, 42.003, 196.386

Rectangle

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



42, 87.740, 40.000



42, 87.740, 90.000



42, 87.740, 220.000



42, 87.740, 270.000

Sweetspot

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



42, 87.647, 40.000



80, 30.038, 21.948



48, 96.859, 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.



42, 87.647, 40.000



53, 104.576, 40.000



54, 71.532, 60.347



40, 4.369, 19.925



34, 75.554, 39.823



4, 17.910, 19.405

Inverse Universe

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



74, 42.003, 196.386



91, 50.115, 196.386



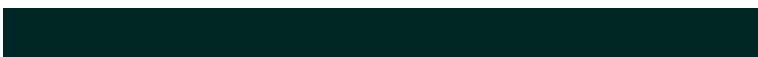
44, 60.893, 284.362



42, 4.119, 198.977



62, 36.301, 196.386



13, 13.514, 196.386

Previews

White Background



This preview shows how the CIELCh color 42, 87.740, 40.000 looks on a white background.

Color Contrast Check

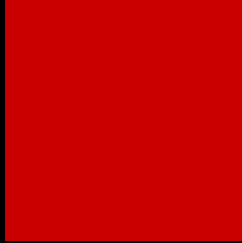
Large Text (above 18pt) WCAG AA ✓ Pass

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 42, 87.740, 40.000 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 42, 87.740, 40.000

Background



This preview shows how black text looks on a background with the CIELCh color 42, 87.740, 40.000.



This preview shows how white text looks on a background with the CIELCh color 42, 87.740, 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

42, 87.740, 40.000

Protanopia

43, 42.275, 95.860

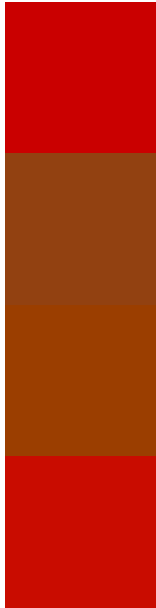
Deuteranopia

43, 50.546, 84.789



Tritanopia
42, 85.675, 41.025

Trichromacy



Original Color
42, 87.740, 40.000

Protanomaly
38, 52.888, 53.403

Deuteranomaly
39, 61.444, 53.674

Tritanomaly
42, 86.611, 40.571

Monochromacy



Original Color
42, 87.740, 40.000

Achromatopsia
25, 0.004, 296.813

Achromatomaly
27, 37.156, 28.221

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 87.740, 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(202, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(202, 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(202, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 87.740, 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(202, 0, 0) }
```

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

```
.border{ border-color:rgb(202, 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(202, 0, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(202, 0, 0); box-shadow:4px  
4px 4px 4px rgb(202, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 87.740, 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(202, 0, 0) }
```

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

```
.background{ background-color: rgb(202, 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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