

Converting Colors

CIELCh(38, 90.257, 37.523)

Have a look what the booklet for
CIELCh(38, 90.257, 37.523) contains.

CIELCh(40, 84.804, 40.000)	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(40, 84.804, 40.000)

Conversions

Conversions Part 1

Format	Color
Hex	C10000
RGB	193, 0, 0
RGB Percent	76%, 0%, 0%
CMY	0.2450, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.24
HSL	0°, 100%, 38%
HSV	0°, 100%, 76%
XYZ	21.8601, 11.2510, 1.0113
YIQ	57.7070, 115.0280, 40.9160

Conversions

Conversions Part 2

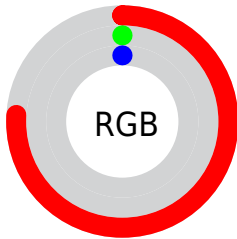
Format	Color
RYB	193, 0, 0
Decimal	12648448
CIELab	40.00, 64.96, 54.51
CIELCh	40, 84.804, 40.000
Yxy	11.2510, 0.6406, 0.3297
Android (android.graphics.Color)	4290838528 (0xFFC10000)
YUV	57.7070, -28.4496, 118.6520
Hunter-Lab	33.5425, 57.6316, 21.6921

Details

The CIELCh color **40, 84.804, 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 **71, 40.567, 196.386**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **59, 83.516, 39.977**, and **26, 61.701, 38.443** is the 20% darker color. If you saturate the color by 10%, you get **40, 84.651, 40.000**, and if you desaturate by 10%, it is **41, 78.936, 37.253**.

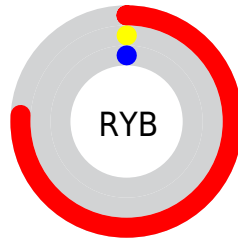
Distribution



Red (76%)

Green (0%)

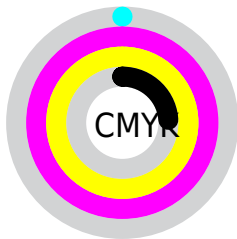
Blue (0%)



Red (76%)

Yellow (0%)

Blue (0%)

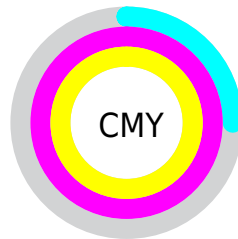


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (24%)



Cyan (25%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 40, 84.804, 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 40, 84.804, 40.000 by changing the saturation by 10% instead.

 40, 84.804, 40.000  40, 84.804, 40.000

 100, 84.804,
40.000  30, 84.804, 40.000

 60, 84.804, 40.000  20, 84.804, 40.000

 70, 84.804, 40.000  10, 84.804, 40.000

 80, 84.804, 40.000  0, 84.804, 40.000

 90, 84.804, 40.000

 40, 84.804, 40.000  40, 84.804, 40.000

 40, 84.651, 40.000  41, 78.936, 37.253

 43, 71.079, 33.784

■ 45, 61.919, 30.338

■ 48, 52.247, 27.406

■ 52, 42.494, 25.073

■ 57, 32.964, 23.270

■ 62, 23.866, 21.886

■ 67, 15.318, 20.820

■ 72, 7.366, 19.970

Harmonies

Complementary

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



40, 84.804, 40.000



71, 40.567, 196.386

Rectangle

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



40, 84.804, 40.000



40, 84.804, 90.000



40, 84.804, 220.000



40, 84.804, 270.000

Sweetspot

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



40, 84.651, 40.000



78, 29.547, 21.944



46, 93.549, 328.233



39, 20.466, 22.494



99, 0.012, 296.813



52, 0.007, 296.813

Same Dimension

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



40, 84.651, 40.000



52, 102.987, 40.000



51, 69.042, 60.475



38, 4.188, 19.920



33, 73.728, 39.724



3, 13.999, 19.405

Inverse Universe

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



71, 40.567, 196.386



89, 49.354, 196.386



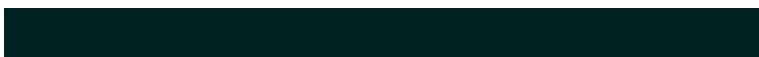
42, 58.629, 284.211



40, 3.949, 198.981



60, 35.475, 196.386



11, 12.444, 196.392

Previews

White Background



This preview shows how the CIELCh color 40, 84.804, 40.000 looks on a white background.

Color Contrast Check

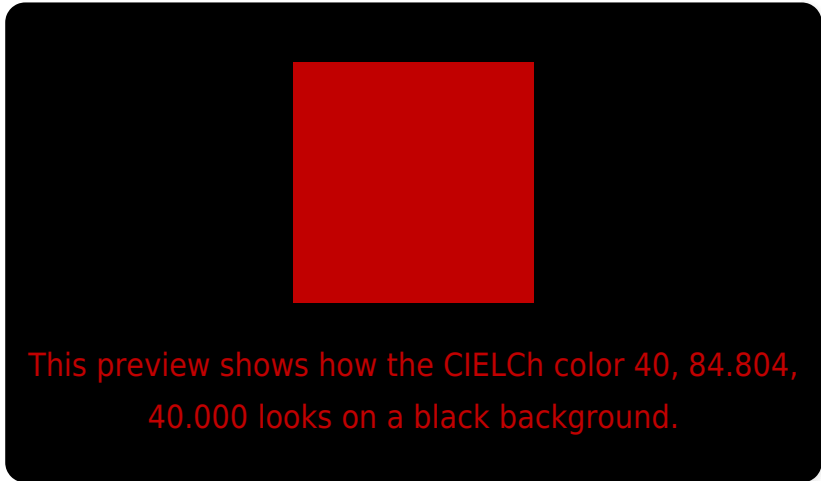
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



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 40, 84.804, 40.000

Background



This preview shows how black text looks on a background with the CIELCh color 40, 84.804, 40.000.



This preview shows how white text looks on a background with the CIELCh color 40, 84.804, 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

40, 84.804, 40.000

Protanopia

41, 40.563, 95.488

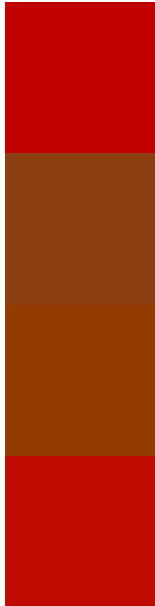
Deuteranopia

41, 48.788, 84.568



Tritanopia
40, 82.741, 41.056

Trichromacy



Original Color
40, 84.804, 40.000

Protanomaly
36, 50.839, 53.574

Deuteranomaly
37, 59.369, 53.740

Tritanomaly
40, 83.692, 40.576

Monochromacy



Original Color
40, 84.804, 40.000

Achromatopsia
24, 0.004, 296.813

Achromatomaly
26, 35.373, 27.958

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 84.804, 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(193, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(193, 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(193, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 84.804, 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(193, 0, 0) }
```

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

```
.border{ border-color:rgb(193, 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(193, 0, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(193, 0, 0); box-shadow:4px  
4px 4px 4px rgb(193, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 40, 84.804, 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(193, 0, 0) }
```

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

```
.background{ background-color: rgb(193, 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