

Converting Colors

CIELCh(40, 81.575, 37.580)

Have a look what the booklet for
CIELCh(40, 81.575, 37.580) contains.

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Color

CIELCh(40, 81.533, 37.557)

Conversions

Conversions Part 1

Format	Color
Hex	C0020D
RGB	192, 2, 13
RGB Percent	75%, 1%, 5%
CMY	0.2476, 0.9935, 0.9495
CMYK	0.00, 0.99, 0.93, 0.25
HSL	356°, 98%, 38%
HSV	356°, 99%, 75%
XYZ	21.7898, 11.2510, 1.3999
YIQ	60.0640, 109.7090, 43.7010

Conversions

Conversions Part 2

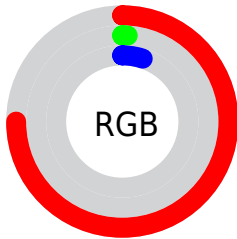
Format	Color
RYB	192, 2, 13
Decimal	12583437
CIELab	40.00, 64.64, 49.70
CIElCh	40, 81.533, 37.557
Yxy	11.2510, 0.6327, 0.3267
Android (android.graphics.Color)	4290773517 (0xFFC0020D)
YUV	60.0640, -23.2026, 115.7079
Hunter-Lab	33.5425, 57.2577, 21.0053

Details

The CIELCh color **40, 81.533, 37.557** 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 **70, 42.482, 187.792**, and the grayscale version is **25, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 80.776, 37.705**, and **26, 61.301, 38.379** is the 20% darker color. If you saturate the color by 10%, you get **40, 81.976, 37.784**, and if you desaturate by 10%, it is **41, 75.432, 33.882**.

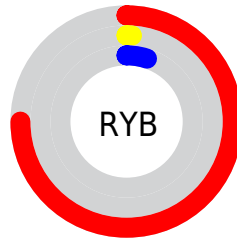
Distribution



Red (75%)

Green (1%)

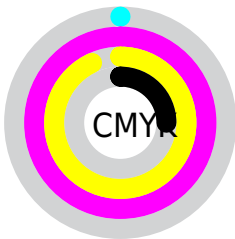
Blue (5%)



Red (75%)

Yellow (1%)

Blue (5%)

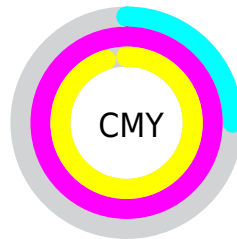


Cyan (0%)

Magenta (99%)

Yellow (93%)

Black (25%)



Cyan (25%)

Magenta (99%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 40, 81.533, 37.557 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, 81.533, 37.557 by changing the saturation by 10% instead.

■ 40, 81.533, 37.557

■ 40, 81.533, 37.557

■ 100, 81.533,
37.557

■ 30, 81.533, 37.557

■ 60, 81.533, 37.557

■ 20, 81.533, 37.557

■ 70, 81.533, 37.557

■ 10, 81.533, 37.557

■ 80, 81.533, 37.557

■ 0, 81.533, 37.557

■ 90, 81.533, 37.557

■ 40, 81.533, 37.557

■ 40, 81.533, 37.557

■ 40, 81.976, 37.784

■ 41, 75.432, 33.882

■ 43, 67.751, 29.756

■ 45, 59.170, 26.054

■ 49, 50.089, 23.012

■ 53, 40.835, 20.607

■ 57, 31.694, 18.730

■ 62, 22.882, 17.259

■ 67, 14.530, 16.091

■ 73, 6.696, 15.126

Harmonies

Complementary

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



40, 81.533, 37.557



70, 42.482, 187.792

Rectangle

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



40, 81.533, 37.557



40, 81.533, 87.557



40, 81.533, 217.557



40, 81.533, 267.557

Sweetspot

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



40, 81.530, 37.559



79, 29.333, 17.438



43, 93.476, 325.632



39, 20.276, 18.039



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, 81.530, 37.559



52, 100.687, 38.320



49, 70.550, 55.492



38, 4.194, 15.148



33, 71.437, 37.296



3, 14.032, 16.184

Inverse Universe

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



40, 81.530, 37.559



52, 100.687, 38.320



45, 50.617, 276.450



38, 4.194, 15.148



33, 71.437, 37.296



3, 14.032, 16.184

Previews

White Background



This preview shows how the CIELCh color 40, 81.533, 37.557 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 40, 81.533, 37.557 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 40, 81.533, 37.557

Background



This preview shows how black text looks on a background with the CIELCh color 40, 81.533, 37.557.



This preview shows how white text looks on a background with the CIELCh color 40, 81.533, 37.557.

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, 81.533, 37.557

Protanopia

41, 38.344, 96.113

Deuteranopia

41, 48.788, 84.568



Tritanopia
40, 82.402, 41.068

Trichromacy



Original Color
40, 81.533, 37.557

Protanomaly
36, 47.777, 51.076

Deuteranomaly
37, 57.592, 52.825

Tritanomaly
40, 82.137, 39.645

Monochromacy



Original Color
40, 81.533, 37.557

Achromatopsia
25, 0.004, 296.813

Achromatomaly
26, 33.912, 23.511

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 81.533, 37.557 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(192, 2, 13)` looks like.

```
.text, #text, p{  
  color:rgb(192, 2, 13)  
}
```

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(192, 2, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(192, 2, 13) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 81.533, 37.557 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(192, 2, 13) }
```

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

```
.border{ border-color:rgb(192, 2, 13) }
```

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

Here you see how a box with a 4 pixel rgb(192, 2, 13) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(192, 2, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(192, 2, 13);  
box-shadow:4px 4px 4px 4px rgb(192, 2, 13)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 40, 81.533, 37.557 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(192, 2, 13) }
```

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

```
.background{ background-color: rgb(192, 2,  
13) }
```

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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