

Converting Colors

CIELCh(42, 80.761, 33.339)

Have a look what the booklet for
CIELCh(42, 80.761, 33.339) contains.

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Color

CIELCh(42, 80.598, 33.305)

Conversions

Conversions Part 1

Format	Color
Hex	C9001E
RGB	201, 0, 30
RGB Percent	79%, 0%, 12%
CMY	0.2120, 1.0000, 0.8825
CMYK	0.00, 1.00, 0.85, 0.21
HSL	351°, 100%, 39%
HSV	351°, 100%, 79%
XYZ	24.3045, 12.5000, 2.3576
YIQ	63.5190, 110.1660, 51.9420

Conversions

Conversions Part 2

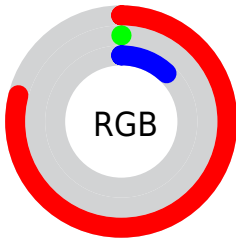
Format	Color
RYB	201, 0, 30
Decimal	13172766
CIELab	42.00, 67.36, 44.26
CIElCh	42, 80.598, 33.305
Yxy	12.5000, 0.6206, 0.3192
Android (android.graphics.Color)	4291362846 (0xFFC9001E)
YUV	63.5190, -16.5249, 120.5708
Hunter-Lab	35.3553, 60.8355, 20.7952

Details

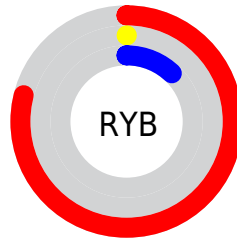
The CIELCh color **42, 80.598, 33.305** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **73, 48.798, 176.229**, and the grayscale version is **27, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 76.040, 32.983**, and **28, 64.854, 38.894** is the 20% darker color. If you saturate the color by 10%, you get **42, 80.588, 33.313**, and if you desaturate by 10%, it is **43, 74.638, 28.479**.

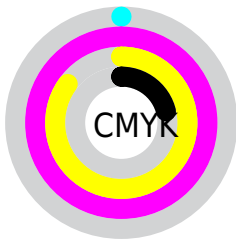
Distribution



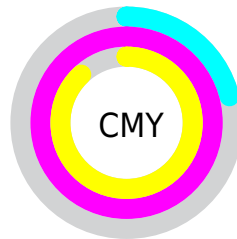
- Red (79%)
- Green (0%)
- Blue (12%)



- Red (79%)
- Yellow (0%)
- Blue (12%)



- Cyan (0%)
- Magenta (100%)
- Yellow (85%)
- Black (21%)



- Cyan (21%)
- Magenta (100%)
- Yellow (88%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 42, 80.598, 33.305 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, 80.598, 33.305 by changing the saturation by 10% instead.

 42, 80.598, 33.305

 42, 80.598, 33.305

 100, 80.598,
33.305

 32, 80.598, 33.305

 62, 80.598, 33.305

 22, 80.598, 33.305

 72, 80.598, 33.305

 12, 80.598, 33.305

 82, 80.598, 33.305

 2, 80.598, 33.305

 92, 80.598, 33.305

 0, 80.598, 33.305

 42, 80.598, 33.305

 42, 80.598, 33.305

 42, 80.588, 33.313

 43, 74.638, 28.479

 45, 67.823, 23.780

■ 47, 60.079, 19.794

■ 51, 51.583, 16.584

■ 55, 42.631, 14.049

■ 60, 33.546, 12.046

■ 65, 24.598, 10.445

■ 70, 15.968, 9.140

■ 75, 7.757, 8.038

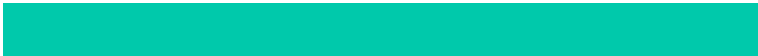
Harmonies

Complementary

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



42, 80.598, 33.305



73, 48.798, 176.229

Rectangle

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



42, 80.598, 33.305



42, 80.598, 83.305



42, 80.598, 213.305



42, 80.598, 263.305

Sweetspot

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



42, 80.588, 33.313



80, 29.877, 10.506



43, 97.775, 322.465



40, 20.592, 11.154



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, 80.588, 33.313



53, 97.187, 34.050



48, 77.045, 49.844



39, 4.354, 7.973



34, 68.476, 32.493



3, 16.058, 11.723

Inverse Universe

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



42, 80.588, 33.313



53, 97.187, 34.050



52, 44.817, 265.167



39, 4.354, 7.973



34, 68.476, 32.493



3, 16.058, 11.723

Previews

White Background



This preview shows how the CIELCh color 42, 80.598, 33.305 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, 80.598, 33.305 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, 80.598, 33.305

Background



This preview shows how black text looks on a background with the CIELCh color 42, 80.598, 33.305.



This preview shows how white text looks on a background with the CIELCh color 42, 80.598, 33.305.

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, 80.598, 33.305

Protanopia

43, 31.237, 96.685

Deuteranopia

43, 50.414, 84.104



Tritanopia
42, 85.773, 40.952

Trichromacy



Original Color
42, 80.598, 33.305

Protanomaly
38, 43.437, 43.067

Deuteranomaly
38, 58.940, 51.030

Tritanomaly
42, 84.109, 38.590

Monochromacy



Original Color
42, 80.598, 33.305

Achromatopsia
27, 0.004, 296.813

Achromatomaly
27, 34.701, 16.894

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 80.598, 33.305 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(201, 0, 30)` looks like.

```
.text, #text, p{  
    color:rgb(201, 0, 30)  
}
```

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(201, 0, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(201, 0, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 80.598, 33.305 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(201, 0, 30) }
```

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

```
.border{ border-color:rgb(201, 0, 30) }
```

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

Here you see how a box with a 4 pixel rgb(201, 0, 30) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(201, 0, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(201, 0, 30);  
box-shadow:4px 4px 4px 4px rgb(201, 0, 30)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 42, 80.598, 33.305 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(201, 0, 30) }
```

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

```
.background{ background-color: rgb(201, 0,  
30) }
```

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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