

Converting Colors

CIELCh(42, 78.600, 33.750)

Have a look what the booklet for
CIELCh(42, 78.600, 33.750) contains.

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Color

CIELCh(42, 78.681, 33.677)

Conversions

Conversions Part 1

Format	Color
Hex	C70D1F
RGB	199, 13, 31
RGB Percent	78%, 5%, 12%
CMY	0.2207, 0.9474, 0.8792
CMYK	0.00, 0.93, 0.84, 0.22
HSL	354°, 87%, 42%
HSV	354°, 93%, 78%
XYZ	23.8742, 12.5000, 2.4380
YIQ	70.6660, 105.0780, 45.0300

Conversions

Conversions Part 2

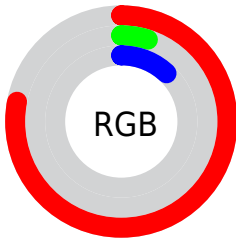
Format	Color
R_{YB}	199, 13, 31
Decimal	13045023
CIE Lab	42.00, 65.48, 43.63
CIE LCh	42, 78.681, 33.677
Yxy	12.5000, 0.6151, 0.3221
Android (android.graphics.Color)	4291235103 (0xFFC70D1F)
YUV	70.6660, -19.5553, 112.5489
Hunter-Lab	35.3553, 58.6630, 20.6603

Details

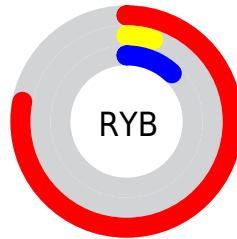
The CIELCh color **42, 78.681, 33.677** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark washed red. A complement of this color would be **72, 44.607, 183.732**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 75.083, 33.429**, and **27, 64.073, 38.791** is the 20% darker color. If you saturate the color by 10%, you get **41, 82.703, 36.368**, and if you desaturate by 10%, it is **43, 71.626, 29.193**.

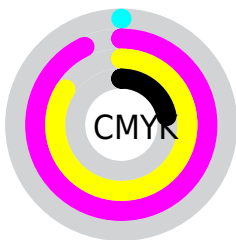
Distribution



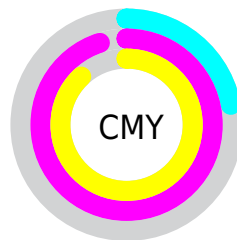
- Red (78%)
- Green (5%)
- Blue (12%)



- Red (78%)
- Yellow (5%)
- Blue (12%)



- Cyan (0%)
- Magenta (93%)
- Yellow (84%)
- Black (22%)



- Cyan (22%)
- Magenta (95%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 42, 78.681, 33.677 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, 78.681, 33.677 by changing the saturation by 10% instead.

■ 42, 78.681, 33.677

■ 42, 78.681, 33.677

■ 100, 78.681,
33.677

■ 32, 78.681, 33.677

■ 62, 78.681, 33.677

■ 22, 78.681, 33.677

■ 72, 78.681, 33.677

■ 12, 78.681, 33.677

■ 82, 78.681, 33.677

■ 2, 78.681, 33.677

■ 92, 78.681, 33.677

■ 0, 78.681, 33.677

■ 42, 78.681, 33.677

■ 42, 78.681, 33.677

■ 41, 82.703, 36.368

■ 43, 71.626, 29.193

■ 46, 63.543, 25.092

■ 49, 54.756, 21.682

■ 53, 45.567, 18.965

■ 57, 36.288, 16.832

■ 62, 27.188, 15.153

■ 67, 18.453, 13.815

■ 73, 10.184, 12.720

■ 78, 2.421, 11.675

Harmonies

Complementary

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



42, 78.681, 33.677



72, 44.607, 183.732

Rectangle

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



42, 78.681, 33.677



42, 78.681, 83.677



42, 78.681, 213.677



42, 78.681, 263.677

Sweetspot

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



42, 78.678, 33.679



81, 27.634, 14.469



44, 94.938, 324.489



41, 19.323, 15.084



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, 78.678, 33.679



53, 100.534, 36.987



51, 70.362, 54.280



39, 4.304, 12.338



34, 70.917, 35.724



3, 15.960, 14.543

Inverse Universe

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



42, 78.678, 33.679



53, 100.534, 36.987



50, 46.269, 269.312



39, 4.304, 12.338



34, 70.917, 35.724



3, 15.960, 14.543

Previews

White Background



This preview shows how the CIELCh color 42, 78.681, 33.677 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, 78.681, 33.677 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, 78.681, 33.677

Background



This preview shows how black text looks on a background with the CIELCh color 42, 78.681, 33.677.



This preview shows how white text looks on a background with the CIELCh color 42, 78.681, 33.677.

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, 78.758, 33.608

Protanopia

43, 30.297, 95.608

Deuteranopia

43, 50.414, 84.104



Tritanopia
42, 83.816, 39.889

Trichromacy



Original Color
42, 78.758, 33.608

Protanomaly
38, 42.227, 45.419

Deuteranomaly
39, 57.552, 53.594

Tritanomaly
42, 82.195, 38.099

Monochromacy



Original Color
42, 78.758, 33.608

Achromatopsia
30, 0.005, 296.813

Achromatomaly
30, 31.889, 19.658

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 78.681, 33.677 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(199, 13, 31)` looks like.

```
.text, #text, p{  
    color:rgb(199, 13, 31)  
}
```

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(199, 13, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 13, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 78.681, 33.677 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(199, 13, 31) }
```

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

```
.border{ border-color:rgb(199, 13, 31) }
```

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

Here you see how a box with a 4 pixel rgb(199, 13, 31) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 13, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 13, 31);  
box-shadow:4px 4px 4px 4px rgb(199, 13,  
31) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 78.681, 33.677 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 13, 31) }
```

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

```
.background{ background-color: rgb(199, 13,  
31) }
```

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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