

Converting Colors

CIELCh(32, 102.990, 40.015)

Have a look what the booklet for
CIELCh(32, 102.990, 40.015)
contains.

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Color

CIELCh(38, 81.167, 39.990)

Conversions

Conversions Part 1

Format	Color
Hex	B70201
RGB	183, 2, 1
RGB Percent	72%, 1%, 0%
CMY	0.2831, 0.9924, 0.9980
CMYK	0.00, 0.99, 1.00, 0.28
HSL	0°, 99%, 36%
HSV	0°, 100%, 72%
XYZ	19.5098, 10.0881, 0.9337
YIQ	56.0050, 108.1970, 38.0610

Conversions

Conversions Part 2

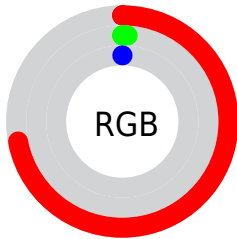
Format	Color
RYB	183, 2, 1
Decimal	11993601
CIELab	38.00, 62.19, 52.16
CIElCh	38, 81.167, 39.990
Yxy	10.0881, 0.6390, 0.3304
Android (android.graphics.Color)	4290183681 (0xFFB70201)
YUV	56.0050, -27.1175, 111.3746
Hunter-Lab	31.7617, 54.0616, 20.4903

Details

The CIELCh color **38, 81.167, 39.990** is a dark color, and the websafe version is hex **CC0000**. A complement of this color would be **67, 38.584, 197.597**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **58, 80.986, 39.885**, and **23, 57.652, 37.721** is the 20% darker color. If you saturate the color by 10%, you get **38, 81.333, 40.077**, and if you desaturate by 10%, it is **39, 75.416, 37.196**.

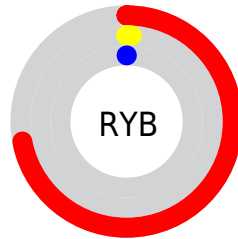
Distribution



Red (72%)

Green (1%)

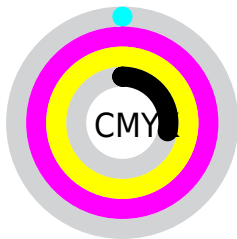
Blue (0%)



Red (72%)

Yellow (1%)

Blue (0%)

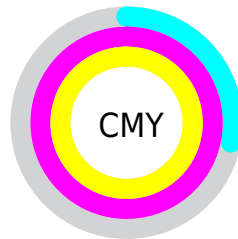


Cyan (0%)

Magenta (99%)

Yellow (100%)

Black (28%)



Cyan (28%)

Magenta (99%)

Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 38, 81.167, 39.990 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 38, 81.167, 39.990 by changing the saturation by 10% instead.

 38, 81.167, 39.990

 38, 81.167, 39.990

 100, 81.167,
39.990

 28, 81.167, 39.990

 58, 81.167, 39.990


 18, 81.167, 39.990

 68, 81.167, 39.990

 8, 81.167, 39.990

 78, 81.167, 39.990

 0, 81.167, 39.990

 88, 81.167, 39.990

 98, 81.167, 39.990

 38, 81.167, 39.990

 38, 81.167, 39.990

 38, 81.333, 40.077

 39, 75.416, 37.196

41, 67.706, 33.820

43, 58.838, 30.505

46, 49.539, 27.695

50, 40.208, 25.461

55, 31.122, 23.734

59, 22.469, 22.410

64, 14.350, 21.389

69, 6.801, 20.576

Harmonies

Complementary

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



38, 81.167, 39.990



67, 38.584, 197.597

Rectangle

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



38, 81.167, 39.990



38, 81.167, 89.990



38, 81.167, 219.990



38, 81.167, 269.990

Sweetspot

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



38, 81.164, 39.992



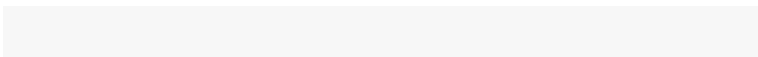
75, 28.104, 22.501



43, 89.957, 328.230



38, 19.628, 23.026



97, 0.011, 296.813



50, 0.007, 296.813

Same Dimension

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



38, 81.164, 39.992



50, 98.889, 40.060



49, 66.243, 60.683



36, 3.972, 20.547



32, 71.763, 39.712



2, 10.576, 19.884

Inverse Universe

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



67, 38.584, 197.597



85, 46.901, 197.620



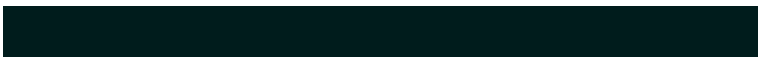
40, 56.047, 283.917



38, 3.747, 199.665



58, 34.263, 197.584



8, 10.387, 198.770

Previews

White Background



This preview shows how the CIELCh color 38, 81.167, 39.990 looks on a white background.

Color Contrast Check

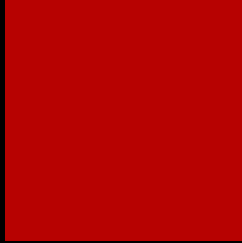
Large Text (above 18pt) WCAG AA ✓ Pass

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 38, 81.167, 39.990 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 38, 81.167, 39.990

Background



This preview shows how black text looks on a background with the CIELCh color 38, 81.167, 39.990.



This preview shows how white text looks on a background with the CIELCh color 38, 81.167, 39.990.

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

38, 81.097, 39.887

Protanopia

39, 38.830, 95.076

Deuteranopia

39, 47.153, 85.072



Tritanopia
38, 79.438, 41.103

Trichromacy



Original Color
38, 81.097, 39.887

Protanomaly
34, 49.187, 53.508

Deuteranomaly
35, 56.673, 54.511

Tritanomaly
38, 80.250, 40.713

Monochromacy



Original Color
38, 81.097, 39.887

Achromatopsia
24, 0.004, 296.813

Achromatomaly
24, 33.569, 27.679

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 38, 81.167, 39.990 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(183, 2, 1)` looks like.

```
.text, #text, p{  
    color:rgb(183, 2, 1)  
}
```

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(183, 2, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 2, 1) }
```

Border

The CSS property to change the border of an element to CIELCh 38, 81.167, 39.990 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(183, 2, 1) }
```

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

```
.border{ border-color:rgb(183, 2, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(183, 2, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(183, 2, 1); -webkit-box-shadow:4px  
4px 4px 4px rgb(183, 2, 1); box-shadow:4px  
4px 4px 4px rgb(183, 2, 1) }
```

Background

The CSS property to change the background color of an element to CIELCh 38, 81.167, 39.990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(183, 2, 1) }
```

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

```
.background{ background-color: rgb(183, 2,  
1) }
```

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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