

Converting Colors

CIELCh(11, 41.591, 24.603)

Have a look what the booklet for
CIELCh(11, 41.591, 24.603) contains.

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Color

CIELCh(13, 38.356, 30.318)

Conversions

Conversions Part 1

Format	Color
Hex	4C0102
RGB	76, 1, 2
RGB Percent	30%, 0%, 1%
CMY	0.7019, 0.9964, 0.9904
CMYK	0.00, 0.99, 0.97, 0.70
HSL	359°, 98%, 15%
HSV	359°, 99%, 30%
XYZ	3.0054, 1.5625, 0.2134
YIQ	23.5390, 44.3790, 16.2110

Conversions

Conversions Part 2

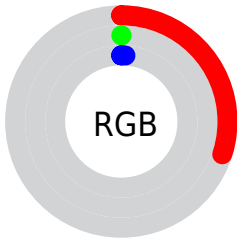
Format	Color
RYB	76, 1, 2
Decimal	4980994
CIELab	13.00, 33.11, 19.36
CIELCh	13, 38.356, 30.318
Yxy	1.5625, 0.6286, 0.3268
Android (android.graphics.Color)	4283171074 (0xFF4C0102)
YUV	23.5390, -10.6187, 46.0083
Hunter-Lab	12.5000, 21.0428, 7.7380

Details

The CIELCh color **13, 38.356, 30.318** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **29, 21.061, 193.625**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **33, 38.102, 30.228**, and **0, 2.218, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **13, 38.727, 30.313**, and if you desaturate by 10%, it is **14, 35.365, 30.145**.

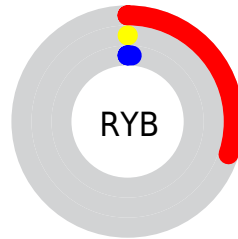
Distribution



Red (30%)

Green (0%)

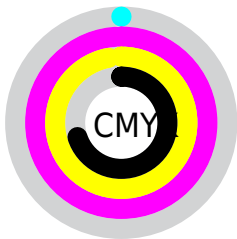
Blue (1%)



Red (30%)

Yellow (0%)

Blue (1%)

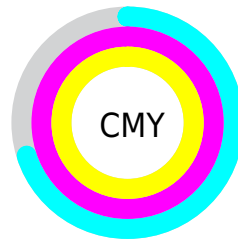


Cyan (0%)

Magenta (99%)

Yellow (97%)

Black (70%)



Cyan (70%)

Magenta (100%)

Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 38.356, 30.318 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 13, 38.356, 30.318 by changing the saturation by 10% instead.

 13, 38.356, 30.318

 13, 38.356, 30.318

 100, 38.356,
30.318

 3, 38.356, 30.318

 33, 38.356, 30.318

 0, 38.356, 30.318

 43, 38.356, 30.318

 53, 38.356, 30.318

 63, 38.356, 30.318

 73, 38.356, 30.318

 83, 38.356, 30.318

 93, 38.356, 30.318

■ 13, 38.356, 30.318

■ 13, 38.356, 30.318

■ 13, 38.727, 30.313

■ 14, 35.365, 30.145

■ 15, 32.052, 29.050

■ 17, 27.795, 26.637

■ 19, 23.326, 24.329

■ 21, 18.895, 22.486

■ 23, 14.598, 21.027

■ 25, 10.496, 19.869

■ 28, 6.625, 18.939

■ 30, 2.996, 18.155

Harmonies

Complementary

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



13, 38.356, 30.318



29, 21.061, 193.625

Rectangle

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



13, 38.356, 30.318



13, 38.356, 80.318



13, 38.356, 210.318



13, 38.356, 260.318

Sweetspot

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



13, 38.355, 30.321



33, 13.764, 20.118



15, 47.860, 327.021



15, 9.538, 20.375



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



13, 38.355, 30.321



19, 48.982, 34.824



19, 32.227, 59.476



14, 1.910, 18.145



19, 50.066, 35.163



48, 95.727, 39.363

Inverse Universe

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



13, 38.355, 30.321



19, 48.982, 34.824



16, 25.463, 275.154



14, 1.910, 18.145



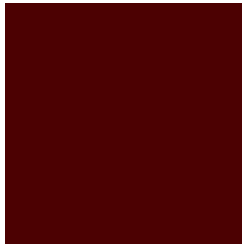
19, 50.066, 35.163



48, 95.727, 39.363

Previews

White Background



This preview shows how the CIELCh color 13, 38.356, 30.318 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 ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 13, 38.356, 30.318

Background



This preview shows how black text looks on a background with the CIELCh color 13, 38.356, 30.318.

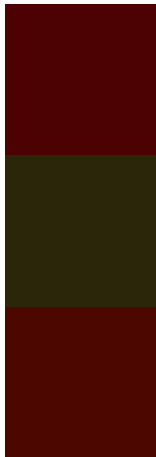


This preview shows how white text looks on a background with the CIELCh color 13, 38.356, 30.318.

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

13, 38.398, 30.594

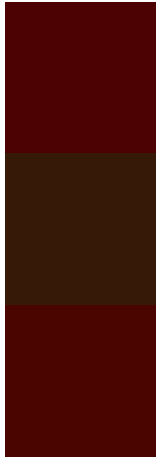
Protanopia

15, 18.003, 96.521

Tritanopia

14, 36.938, 34.653

Trichromacy

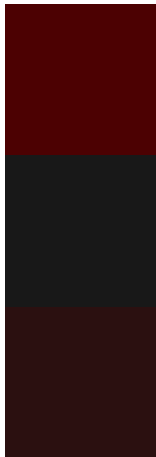


Original Color
13, 38.398, 30.594

Protanomaly
13, 21.051, 51.115

Tritanomaly
13, 37.178, 33.032

Monochromacy



Original Color
13, 38.398, 30.594

Achromatopsia
8, 0.002, 296.813

Achromatomaly
8, 15.113, 22.365

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 38.356, 30.318 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(76, 1, 2)` looks like.

```
.text, #text, p{  
    color:rgb(76, 1, 2)  
}
```

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(76, 1, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 1, 2) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 38.356, 30.318 is called "border". The border property can be set on classes, ids or directly on the HTML element.

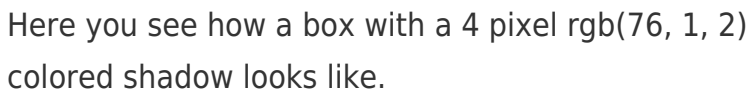
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(76, 1, 2) }
```

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

```
.border{ border-color:rgb(76, 1, 2) }
```

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



Here you see how a box with a 4 pixel `rgb(76, 1, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 1, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(76, 1, 2); box-shadow:4px  
4px 4px 4px rgb(76, 1, 2) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 38.356, 30.318 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 1, 2) }
```

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

```
.background{ background-color: rgb(76, 1,  
2) }
```

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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