

Converting Colors

CIELCh(3, 80.204, 35.773)

Have a look what the booklet for
CIELCh(3, 80.204, 35.773) contains.

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Color

CIELCh(13, 38.644, 30.068)

Conversions

Conversions Part 1

Format	Color
Hex	4C0002
RGB	76, 0, 2
RGB Percent	30%, 0%, 1%
CMY	0.7006, 0.9988, 0.9903
CMYK	0.00, 1.00, 0.97, 0.70
HSL	358°, 99%, 15%
HSV	358°, 100%, 30%
XYZ	3.0245, 1.5625, 0.2134
YIQ	22.9520, 44.6540, 16.7340

Conversions

Conversions Part 2

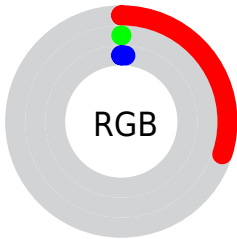
Format	Color
RYB	76, 0, 2
Decimal	4980738
CIELab	13.00, 33.44, 19.36
CIELCh	13, 38.644, 30.068
Yxy	1.5625, 0.6301, 0.3255
Android (android.graphics.Color)	4283170818 (0xFF4C0002)
YUV	22.9520, -10.3293, 46.5231
Hunter-Lab	12.5000, 21.3149, 7.7379

Details

The CIELCh color **13, 38.644, 30.068** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **29, 21.325, 192.494**, and the grayscale version is **8, 0.002, 296.812**.

A 20% lighter version of the original color is **33, 38.423, 29.516**, and **0, 1.941, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **13, 38.768, 30.068**, and if you desaturate by 10%, it is **14, 35.644, 29.917**.

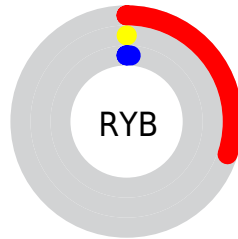
Distribution



Red (30%)

Green (0%)

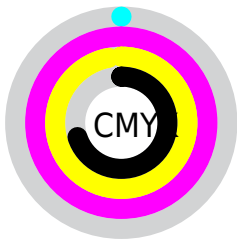
Blue (1%)



Red (30%)

Yellow (0%)

Blue (1%)

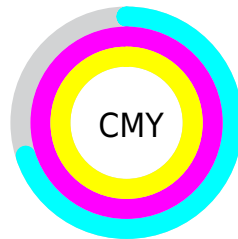


Cyan (0%)

Magenta (100%)

Yellow (97%)

Black (70%)



Cyan (70%)

Magenta (100%)

Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 38.644, 30.068 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, 38.644, 30.068 by changing the saturation by 10% instead.

 13, 38.644, 30.068

 13, 38.644, 30.068

 100, 38.644,
30.068

 3, 38.644, 30.068

 33, 38.644, 30.068

 0, 38.644, 30.068

 43, 38.644, 30.068

 53, 38.644, 30.068

 63, 38.644, 30.068

 73, 38.644, 30.068

 83, 38.644, 30.068

 93, 38.644, 30.068

■ 13, 38.644, 30.068

■ 13, 38.644, 30.068

■ 13, 38.768, 30.068

■ 14, 35.644, 29.917

■ 15, 32.367, 28.762

■ 17, 28.150, 26.286

■ 18, 23.702, 23.916

■ 21, 19.275, 22.020

■ 23, 14.967, 20.517

■ 25, 10.846, 19.321

■ 28, 6.949, 18.358

■ 30, 3.290, 17.550

Harmonies

Complementary

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



13, 38.644, 30.068



29, 21.325, 192.494

Rectangle

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



13, 38.644, 30.068



13, 38.644, 80.068



13, 38.644, 210.068



13, 38.644, 260.068

Sweetspot

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



13, 38.643, 30.071



33, 13.751, 19.486



15, 48.233, 327.033



15, 9.528, 19.747



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, 38.643, 30.071



19, 48.815, 34.498



19, 32.579, 59.354



14, 1.910, 17.477



19, 49.892, 34.836



48, 95.404, 39.112

Inverse Universe

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



13, 38.643, 30.071



19, 48.815, 34.498



16, 25.753, 275.433



14, 1.910, 17.477



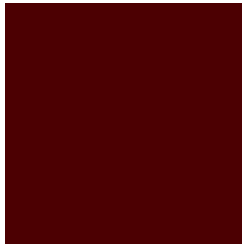
19, 49.892, 34.836



48, 95.404, 39.112

Previews

White Background



This preview shows how the CIELCh color 13, 38.644, 30.068 looks on a white background.

Color Contrast Check

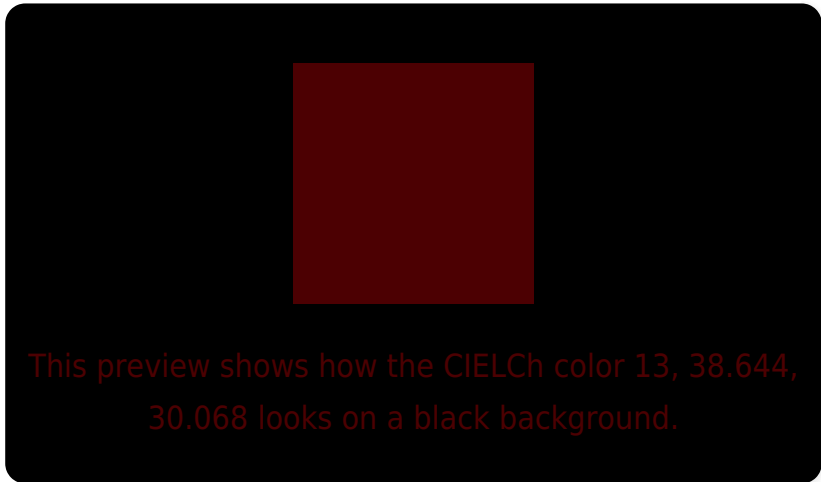
Large Text (above 18pt) WCAG AA ✓ Pass

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

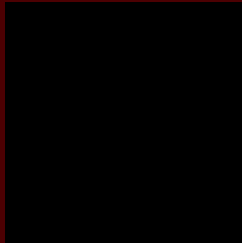
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 13, 38.644, 30.068

Background



This preview shows how black text looks on a background with the CIELCh color 13, 38.644, 30.068.

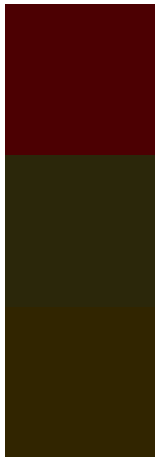


This preview shows how white text looks on a background with the CIELCh color 13, 38.644, 30.068.

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, 38.644, 30.068

Protanopia

15, 18.529, 98.447

Deuteranopia

15, 22.514, 86.975



Tritanopia
14, 37.425, 34.812

Trichromacy



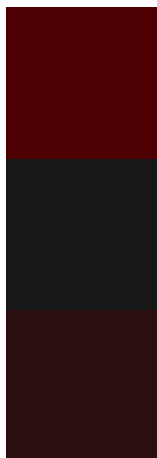
Original Color
13, 38.644, 30.068

Protanomaly
13, 21.051, 51.115

Deuteranomaly
13, 24.886, 51.508

Tritanomaly
14, 37.656, 33.230

Monochromacy



Original Color
13, 38.644, 30.068

Achromatopsia
8, 0.002, 296.812

Achromatomaly
8, 15.035, 19.713

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 38.644, 30.068 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, 0, 2)` looks like.

```
.text, #text, p{  
    color:rgb(76, 0, 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, 0, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 0, 2) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 38.644, 30.068 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, 0, 2) }
```

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

```
.border{ border-color:rgb(76, 0, 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, 0, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 0, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(76, 0, 2); box-shadow:4px  
4px 4px 4px rgb(76, 0, 2) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 38.644, 30.068 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 0, 2) }
```

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

```
.background{ background-color: rgb(76, 0,  
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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