

Converting Colors

CIELCh(13, 40.355, 54.520)

Have a look what the booklet for
CIELCh(13, 40.355, 54.520) contains.

CIELCh(13, 30.979, 40.200)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(13, 30.979, 40.200)

Conversions

Conversions Part 1

Format	Color
Hex	431000
RGB	67, 16, 0
RGB Percent	26%, 6%, 0%
CMY	0.7373, 0.9373, 1.0000
CMYK	0.00, 0.76, 1.00, 0.74
HSL	14°, 100%, 13%
HSV	14°, 100%, 26%
XYZ	2.4982, 1.5625, 0.1691
YIQ	29.4250, 35.5320, 5.8360

Conversions

Conversions Part 2

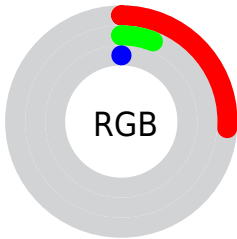
Format	Color
RYB	67, 21, 0
Decimal	4395008
CIELab	13.00, 23.66, 20.00
CIELCh	13, 30.979, 40.200
Yxy	1.5625, 0.5906, 0.3694
Android (android.graphics.Color)	4282585088 (0xFF431000)
YUV	29.4250, -14.5065, 32.9533
Hunter-Lab	12.5000, 13.7991, 7.9481

Details

The CIELCh color **13, 30.979, 40.200** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **19, 16.938, 238.238**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 30.835, 41.005**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **13, 30.972, 40.185**, and if you desaturate by 10%, it is **14, 28.353, 41.285**.

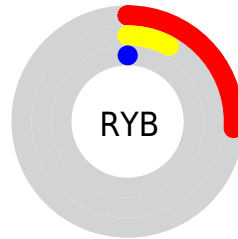
Distribution



Red (26%)

Green (6%)

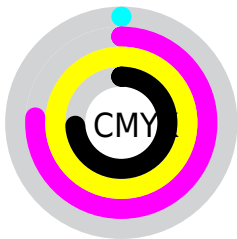
Blue (0%)



Red (26%)

Yellow (8%)

Blue (0%)

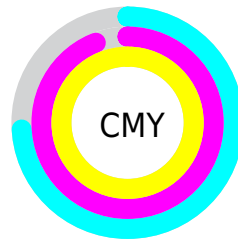


Cyan (0%)

Magenta (76%)

Yellow (100%)

Black (74%)



Cyan (74%)

Magenta (94%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 30.979, 40.200 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, 30.979, 40.200 by changing the saturation by 10% instead.

 13, 30.979, 40.200

 13, 30.979, 40.200

 100, 30.979,
40.200

 3, 30.979, 40.200

 33, 30.979, 40.200

 0, 30.979, 40.200

 43, 30.979, 40.200

 53, 30.979, 40.200

 63, 30.979, 40.200

 73, 30.979, 40.200

 83, 30.979, 40.200

 93, 30.979, 40.200

■ 13, 30.979, 40.200

■ 13, 30.979, 40.200

■ 13, 30.972, 40.185

■ 14, 28.353, 41.285

■ 15, 25.558, 42.999

■ 17, 22.132, 43.674

■ 18, 18.358, 43.358

■ 20, 14.772, 43.184

■ 21, 11.399, 43.148

■ 23, 8.244, 43.229

■ 25, 5.301, 43.402

■ 27, 2.558, 43.621

Harmonies

Complementary

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



13, 30.979, 40.200



19, 16.938, 238.238

Rectangle

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



13, 30.979, 40.200



13, 30.979, 90.200



13, 30.979, 220.200



13, 30.979, 270.200

Sweetspot

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



13, 30.972, 40.185



30, 10.262, 43.213



12, 37.671, 338.621



13, 6.933, 43.195



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



13, 30.972, 40.185



18, 40.104, 42.932



22, 30.544, 84.273



12, 1.403, 43.650



21, 44.572, 43.775



50, 88.953, 44.465

Inverse Universe

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



19, 16.938, 238.238



26, 20.288, 240.116



8, 36.561, 295.737



12, 1.343, 224.501



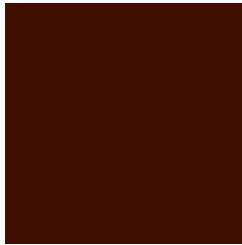
29, 21.972, 240.821



65, 41.171, 244.503

Previews

White Background



This preview shows how the CIELCh color 13, 30.979, 40.200 looks on a white background.

Color Contrast Check

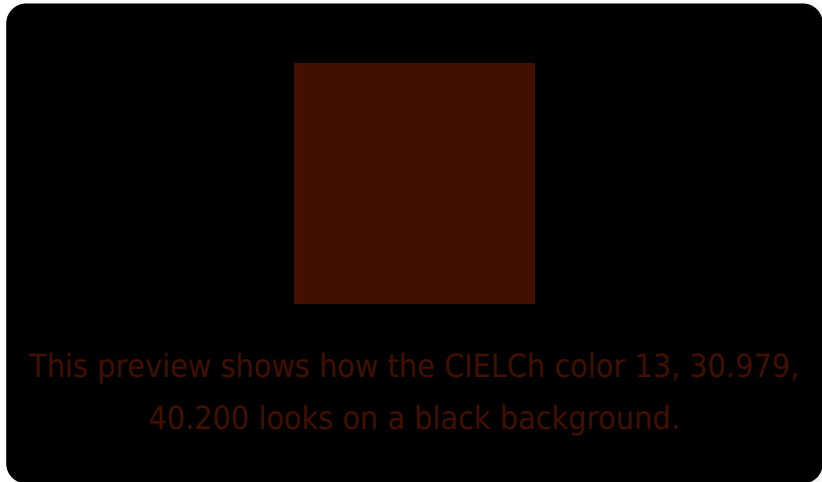
Large Text (above 18pt) WCAG AA ✓ Pass

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

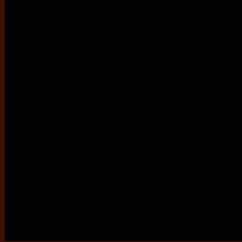
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 30.979, 40.200

Background



This preview shows how black text looks on a background with the CIELCh color 13, 30.979, 40.200.

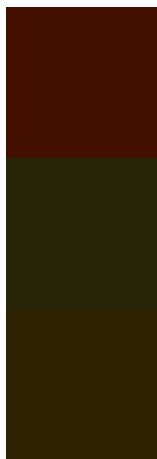


This preview shows how white text looks on a background with the CIELCh color 13, 30.979, 40.200.

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, 30.979, 40.200

Protanopia

14, 17.435, 98.368

Deuteranopia

14, 20.430, 87.301



Tritanopia
13, 28.406, 28.672

Trichromacy



Original Color
13, 30.979, 40.200

Protanomaly
13, 19.053, 66.190

Deuteranomaly
13, 21.914, 61.890

Tritanomaly
13, 29.308, 32.769

Monochromacy



Original Color
13, 30.979, 40.200

Achromatopsia
11, 0.003, 296.813

Achromatomaly
11, 11.735, 42.235

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 30.979, 40.200 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(67, 16, 0)` looks like.

```
.text, #text, p{  
    color:rgb(67, 16, 0)  
}
```

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(67, 16, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 16, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 30.979, 40.200 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(67, 16, 0) }
```

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

```
.border{ border-color:rgb(67, 16, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(67, 16, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 16, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(67, 16, 0); box-shadow:4px  
4px 4px 4px rgb(67, 16, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 30.979, 40.200 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 16, 0) }
```

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

```
.background{ background-color: rgb(67, 16,  
0) }
```

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](#).

Hey! You found this booklet
interesting? Support Converting
Colors with the new Membership
Option!

The pro membership hides all ads, plus gives you
double the colors in the color bucket, and more
awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor