

Converting Colors

CIELCh(13, 38.553, 30.865)

Have a look what the booklet for
CIELCh(13, 38.553, 30.865) contains.

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Color

CIELCh(13, 38.565, 31.120)

Conversions

Conversions Part 1

Format	Color
Hex	4C0101
RGB	76, 1, 1
RGB Percent	30%, 0%, 0%
CMY	0.7018, 0.9959, 0.9959
CMYK	0.00, 0.99, 0.99, 0.70
HSL	360°, 97%, 15%
HSV	360°, 99%, 30%
XYZ	3.0000, 1.5625, 0.1735
YIQ	23.4250, 44.7000, 15.9000

Conversions

Conversions Part 2

Format	Color
RYB	76, 1, 1
Decimal	4980993
CIELab	13.00, 33.01, 19.93
CIELCh	13, 38.565, 31.120
Yxy	1.5625, 0.6334, 0.3299
Android (android.graphics.Color)	4283171073 (0xFF4C0101)
YUV	23.4250, -11.0555, 46.1083
Hunter-Lab	12.5000, 20.9652, 7.9269

Details

The CIELCh color **13, 38.565, 31.120** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **29, 20.764, 196.381**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **33, 38.347, 31.070**, and **0, 1.941, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **13, 38.988, 31.116**, and if you desaturate by 10%, it is **14, 35.549, 30.926**.

Distribution



Red (30%)

Green (0%)

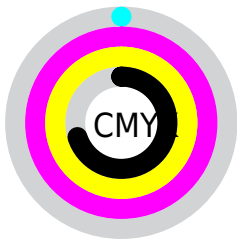
Blue (0%)



Red (30%)

Yellow (0%)

Blue (0%)



Cyan (0%)

Magenta (99%)

Yellow (99%)

Black (70%)



Cyan (70%)

Magenta (100%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 38.565, 31.120 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, 38.565, 31.120 by changing the saturation by 10% instead.

 13, 38.565, 31.120

 13, 38.565, 31.120

 100, 38.565,
31.120

 3, 38.565, 31.120

 33, 38.565, 31.120

 0, 38.565, 31.120

 43, 38.565, 31.120

 53, 38.565, 31.120

 63, 38.565, 31.120

 73, 38.565, 31.120

 83, 38.565, 31.120

 93, 38.565, 31.120

■ 13, 38.565, 31.120

■ 13, 38.565, 31.120

■ 13, 38.988, 31.116

■ 14, 35.549, 30.926

■ 15, 32.268, 30.128

■ 17, 27.982, 27.980

■ 19, 23.428, 25.727

■ 21, 18.934, 23.933

■ 23, 14.592, 22.520

■ 25, 10.462, 21.409

■ 28, 6.575, 20.524

■ 30, 2.941, 19.785

Harmonies

Complementary

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



13, 38.565, 31.120



29, 20.764, 196.381

Rectangle

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



13, 38.565, 31.120



13, 38.565, 81.120



13, 38.565, 211.120



13, 38.565, 261.120

Sweetspot

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



13, 38.564, 31.123



33, 13.804, 21.663



16, 47.789, 327.610



15, 9.569, 21.910



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, 38.564, 31.123



19, 49.399, 35.616



20, 32.121, 61.042



14, 1.910, 19.787



19, 50.499, 35.954



48, 96.561, 39.995

Inverse Universe

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



13, 38.564, 31.123



19, 49.399, 35.616



16, 26.219, 276.994



14, 1.910, 19.787



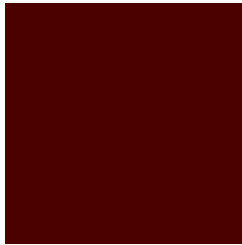
19, 50.499, 35.954



48, 96.561, 39.995

Previews

White Background



This preview shows how the CIE LCh color 13, 38.565, 31.120 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

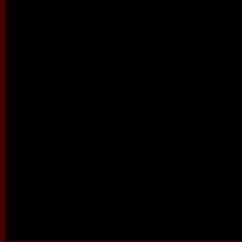
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 38.565, 31.120

Background



This preview shows how black text looks on a background with the CIELCh color 13, 38.565, 31.120.

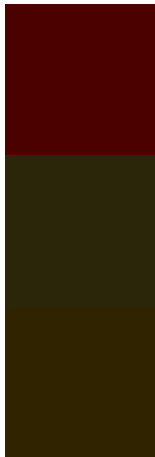


This preview shows how white text looks on a background with the CIELCh color 13, 38.565, 31.120.

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, 38.565, 31.120

Protanopia

15, 18.003, 96.521

Deuteranopia

15, 21.904, 86.587



Tritanopia
14, 36.938, 34.653

Trichromacy



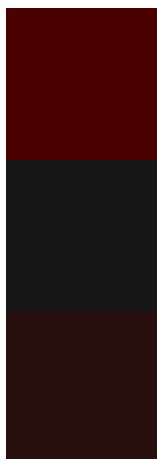
Original Color
13, 38.565, 31.120

Protanomaly
13, 21.051, 51.115

Deuteranomaly
13, 24.749, 51.039

Tritanomaly
13, 37.359, 33.566

Monochromacy



Original Color
13, 38.565, 31.120

Achromatopsia
8, 0.002, 296.812

Achromatomaly
8, 15.101, 21.669

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 38.565, 31.120 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, 1)` looks like.

```
.text, #text, p{  
    color:rgb(76, 1, 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(76, 1, 1) colored shadow looks like.

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

Border

The CSS property to change the border of an element to CIELCh 13, 38.565, 31.120 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, 1) }
```

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

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

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, 1) colored shadow looks like.

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

Background

The CSS property to change the background color of an element to CIELCh 13, 38.565, 31.120 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, 1) }
```

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

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