

Converting Colors

CIELCh(0, 86.360, 32.822)

Have a look what the booklet for
CIELCh(0, 86.360, 32.822) contains.

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Color

CIELCh(13, 37.880, 28.708)

Conversions

Conversions Part 1

Format	Color
Hex	4C0105
RGB	76, 1, 5
RGB Percent	30%, 0%, 2%
CMY	0.7023, 0.9968, 0.9792
CMYK	0.00, 0.99, 0.93, 0.70
HSL	356°, 98%, 15%
HSV	356°, 99%, 30%
XYZ	3.0119, 1.5625, 0.2949
YIQ	23.8810, 43.4160, 17.1440

Conversions

Conversions Part 2

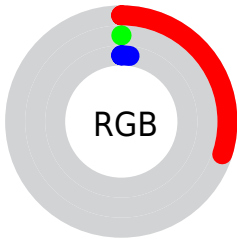
Format	Color
RYB	76, 1, 5
Decimal	4980997
CIELab	13.00, 33.22, 18.20
CIElCh	13, 37.880, 28.708
Yxy	1.5625, 0.6185, 0.3209
Android (android.graphics.Color)	4283171077 (0xFF4C0105)
YUV	23.8810, -9.3083, 45.7084
Hunter-Lab	12.5000, 21.1352, 7.3512

Details

The CIELCh color **13, 37.880, 28.708** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **28, 21.723, 188.489**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **33, 37.867, 29.373**, and **0, 2.218, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **13, 38.208, 28.700**, and if you desaturate by 10%, it is **14, 34.914, 28.475**.

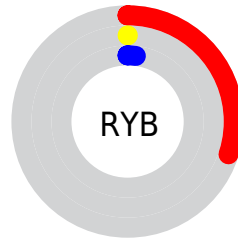
Distribution



Red (30%)

Green (0%)

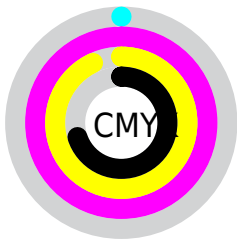
Blue (2%)



Red (30%)

Yellow (0%)

Blue (2%)

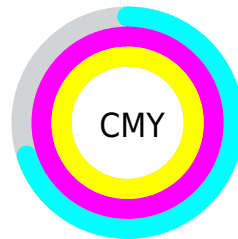


Cyan (0%)

Magenta (99%)

Yellow (93%)

Black (70%)



Cyan (70%)

Magenta (100%)

Yellow (98%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 37.880, 28.708 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, 37.880, 28.708 by changing the saturation by 10% instead.

 13, 37.880, 28.708

 13, 37.880, 28.708

 100, 37.880,
28.708

 3, 37.880, 28.708

 33, 37.880, 28.708

 0, 37.880, 28.708

 43, 37.880, 28.708

 53, 37.880, 28.708

 63, 37.880, 28.708

 73, 37.880, 28.708

 83, 37.880, 28.708

 93, 37.880, 28.708

■ 13, 37.880, 28.708

■ 13, 37.880, 28.708

■ 13, 38.208, 28.700

■ 14, 34.914, 28.475

■ 15, 31.533, 26.704

■ 17, 27.377, 23.895

■ 19, 23.070, 21.509

■ 21, 18.763, 19.598

■ 23, 14.551, 18.070

■ 25, 10.505, 16.841

■ 28, 6.663, 15.837

■ 30, 3.042, 14.979

Harmonies

Complementary

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



13, 37.880, 28.708



28, 21.723, 188.489

Rectangle

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



13, 37.880, 28.708



13, 37.880, 78.708



13, 37.880, 208.708



13, 37.880, 258.708

Sweetspot

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



13, 37.879, 28.711



33, 13.718, 17.093



15, 47.934, 325.850



15, 9.500, 17.366



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, 37.879, 28.711



19, 48.200, 33.246



19, 32.422, 56.439



14, 1.914, 14.959



19, 49.251, 33.585



48, 94.201, 38.147

Inverse Universe

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



13, 37.879, 28.711



19, 48.200, 33.246



17, 23.962, 271.109



14, 1.914, 14.959



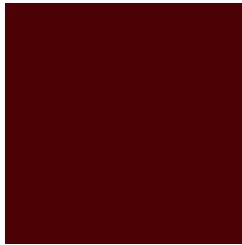
19, 49.251, 33.585



48, 94.201, 38.147

Previews

White Background



This preview shows how the CIE LCh color 13, 37.880, 28.708 looks on a white background.

Color Contrast Check

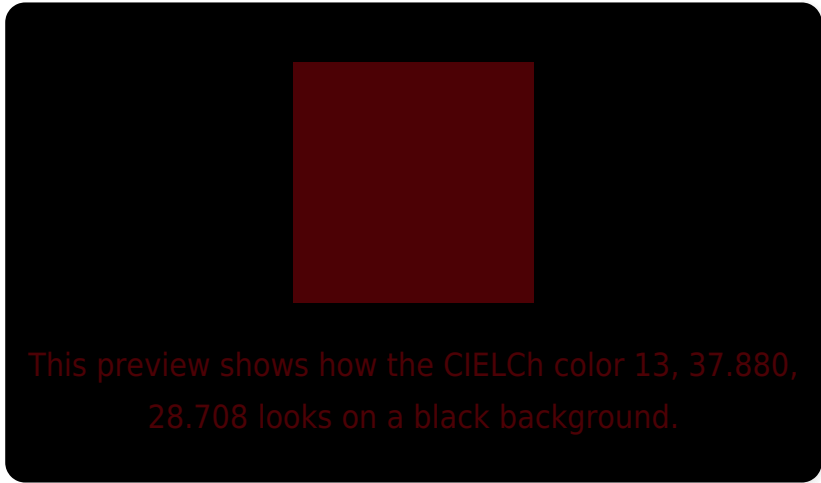
Large Text (above 18pt) WCAG AA ✓ Pass

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

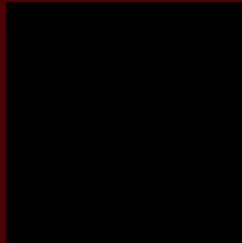
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 37.880, 28.708

Background



This preview shows how black text looks on a background with the CIELCh color 13, 37.880, 28.708.

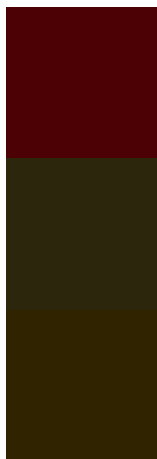


This preview shows how white text looks on a background with the CIELCh color 13, 37.880, 28.708.

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, 37.915, 28.988

Protanopia

15, 17.159, 96.227

Deuteranopia

15, 21.904, 86.587



Tritanopia
14, 36.938, 34.653

Trichromacy



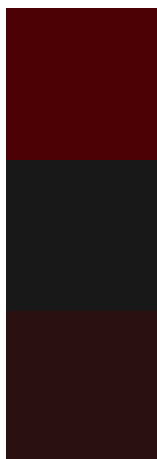
Original Color
13, 37.915, 28.988

Protanomaly
13, 20.470, 46.552

Deuteranomaly
13, 24.232, 49.647

Tritanomaly
13, 37.001, 32.492

Monochromacy



Original Color
13, 37.915, 28.988

Achromatopsia
8, 0.002, 296.813

Achromatomaly
8, 15.033, 20.321

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 37.880, 28.708 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, 5)` looks like.

```
.text, #text, p{  
    color:rgb(76, 1, 5)  
}
```

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, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 1, 5) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 37.880, 28.708 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, 5) }
```

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

```
.border{ border-color:rgb(76, 1, 5) }
```

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, 5)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 1, 5); -webkit-box-shadow:4px  
4px 4px 4px rgb(76, 1, 5); box-shadow:4px  
4px 4px 4px rgb(76, 1, 5) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 37.880, 28.708 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, 5) }
```

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

```
.background{ background-color: rgb(76, 1,  
5) }
```

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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