

Converting Colors

CIELCh(13, 30.392, 29.211)

Have a look what the booklet for
CIELCh(13, 30.392, 29.211) contains.

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Color

CIELCh(13, 30.354, 29.228)

Conversions

Conversions Part 1

Format	Color
Hex	450D0D
RGB	69, 13, 13
RGB Percent	27%, 5%, 5%
CMY	0.7306, 0.9502, 0.9505
CMYK	0.00, 0.82, 0.82, 0.73
HSL	0°, 69%, 16%
HSV	0°, 82%, 27%
XYZ	2.6435, 1.5625, 0.5308
YIQ	29.7440, 33.3760, 11.8720

Conversions

Conversions Part 2

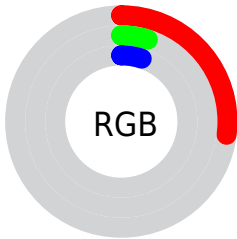
Format	Color
RYB	69, 13, 13
Decimal	4525325
CIELab	13.00, 26.49, 14.82
CIELCh	13, 30.354, 29.228
Yxy	1.5625, 0.5581, 0.3299
Android (android.graphics.Color)	4282715405 (0xFF450D0D)
YUV	29.7440, -8.2548, 34.4275
Hunter-Lab	12.5000, 15.8738, 6.2323

Details

The CIELCh color **13, 30.354, 29.228** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **26, 17.831, 196.764**, and the grayscale version is **11, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 30.408, 29.332**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 33.172, 29.300**, and if you desaturate by 10%, it is **14, 26.849, 28.339**.

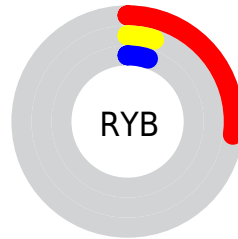
Distribution



Red (27%)

Green (5%)

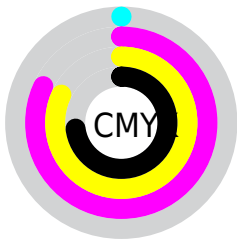
Blue (5%)



Red (27%)

Yellow (5%)

Blue (5%)

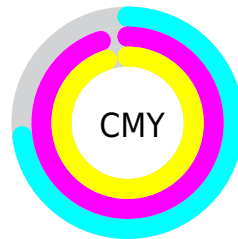


Cyan (0%)

Magenta (82%)

Yellow (82%)

Black (73%)



Cyan (73%)

Magenta (95%)

Yellow (95%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 30.354, 29.228 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, 30.354, 29.228 by changing the saturation by 10% instead.

 13, 30.354, 29.228

 13, 30.354, 29.228

 100, 30.354,
29.228

 3, 30.354, 29.228

 33, 30.354, 29.228

 0, 30.354, 29.228

 43, 30.354, 29.228

 53, 30.354, 29.228

 63, 30.354, 29.228

 73, 30.354, 29.228

 83, 30.354, 29.228

 93, 30.354, 29.228

■ 13, 30.354, 29.228

■ 13, 30.354, 29.228

■ 12, 33.172, 29.300

■ 14, 26.849, 28.339

■ 11, 35.620, 29.003

■ 16, 22.707, 26.204

■ 18, 18.558, 24.360

■ 20, 14.533, 22.901

■ 22, 10.690, 21.749

■ 24, 7.064, 20.834

■ 26, 3.665, 20.084

■ 29, 0.491, 19.057

■ 31, 2.470, 199.228

Harmonies

Complementary

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



13, 30.354, 29.228



26, 17.831, 196.764

Rectangle

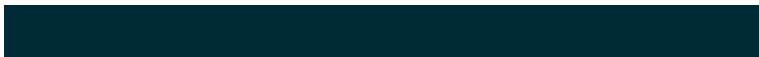
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



13, 30.354, 29.228



13, 30.354, 79.228



13, 30.354, 209.228



13, 30.354, 259.228

Sweetspot

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



13, 30.353, 29.231



31, 9.863, 21.120



15, 39.822, 327.834



14, 6.876, 21.279



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



13, 30.353, 29.231



16, 44.236, 33.920



19, 25.006, 65.876



12, 1.686, 19.863



18, 48.277, 35.293



47, 94.932, 40.009

Inverse Universe

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



26, 17.831, 196.764



34, 23.100, 196.560



16, 20.667, 272.427



12, 1.608, 199.191



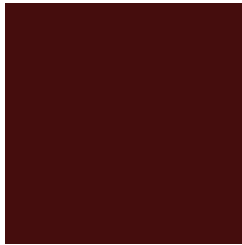
37, 24.633, 196.544



81, 45.428, 196.556

Previews

White Background



This preview shows how the CIE LCh color 13, 30.354, 29.228 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, 30.354, 29.228

Background



This preview shows how black text looks on a background with the CIELCh color 13, 30.354, 29.228.

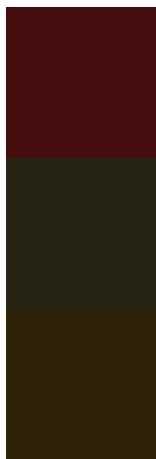


This preview shows how white text looks on a background with the CIELCh color 13, 30.354, 29.228.

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, 30.354, 29.228

Protanopia

14, 12.058, 96.134

Deuteranopia

14, 17.742, 84.922



Tritanopia
13, 30.528, 30.008

Trichromacy



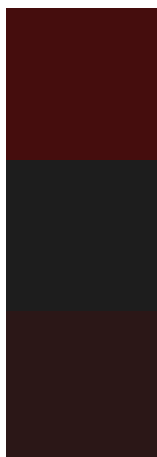
Original Color
13, 30.354, 29.228

Protanomaly
13, 15.087, 51.391

Deuteranomaly
13, 19.873, 52.228

Tritanomaly
13, 30.528, 30.008

Monochromacy



Original Color
13, 30.354, 29.228

Achromatopsia
11, 0.003, 296.813

Achromatomaly
10, 10.985, 22.908

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 30.354, 29.228 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(69, 13, 13)` looks like.

```
.text, #text, p{  
    color:rgb(69, 13, 13)  
}
```

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(69, 13, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 13, 13) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 30.354, 29.228 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(69, 13, 13) }
```

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

```
.border{ border-color:rgb(69, 13, 13) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 13, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 13, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 13, 13);  
box-shadow:4px 4px 4px 4px rgb(69, 13, 13)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 30.354, 29.228 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 13, 13) }
```

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

```
.background{ background-color: rgb(69, 13,  
13) }
```

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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