

Converting Colors

CIELCh(13, 8.886, 4.016)

Have a look what the booklet for
CIELCh(13, 8.886, 4.016) contains.

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Color

CIELCh(13, 9.108, 3.988)

Conversions

Conversions Part 1

Format	Color
Hex	2E1D21
RGB	46, 29, 33
RGB Percent	18%, 11%, 13%
CMY	0.8200, 0.8866, 0.8709
CMYK	0.00, 0.37, 0.28, 0.82
HSL	346°, 23%, 15%
HSV	346°, 37%, 18%
XYZ	1.8331, 1.5625, 1.6375
YIQ	34.5390, 8.8480, 4.8480

Conversions

Conversions Part 2

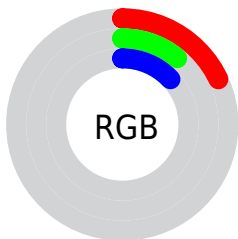
Format	Color
RYB	46, 29, 33
Decimal	3022113
CIELab	13.00, 9.09, 0.63
CIElCh	13, 9.108, 3.988
Yxy	1.5625, 0.3642, 0.3104
Android (android.graphics.Color)	4281212193 (0xFF2E1D21)
YUV	34.5390, -0.7587, 10.0513
Hunter-Lab	12.5000, 4.3012, 0.9832

Details

The CIELCh color **13, 9.108, 3.988** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **17, 8.139, 177.697**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 8.810, 4.364**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 11.718, 5.278**, and if you desaturate by 10%, it is **15, 6.540, 2.886**.

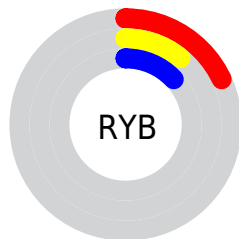
Distribution



Red (18%)

Green (11%)

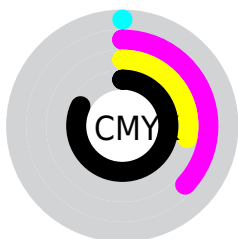
Blue (13%)



Red (18%)

Yellow (11%)

Blue (13%)

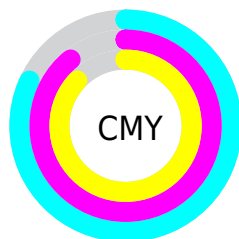


Cyan (0%)

Magenta (37%)

Yellow (28%)

Black (82%)



Cyan (82%)

Magenta (89%)

Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 9.108, 3.988 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, 9.108, 3.988 by changing the saturation by 10% instead.

■ 13, 9.108, 3.988

■ 13, 9.108, 3.988

■ 100, 9.108, 3.988

■ 3, 9.108, 3.988

■ 33, 9.108, 3.988

■ 0, 9.108, 3.988

■ 43, 9.108, 3.988

■ 53, 9.108, 3.988

■ 63, 9.108, 3.988

■ 73, 9.108, 3.988

■ 83, 9.108, 3.988

■ 93, 9.108, 3.988

■ 13, 9.108, 3.988

■ 13, 9.108, 3.988

■ 12, 11.718, 5.278

■ 15, 6.540, 2.886

■ 10, 14.330, 6.800

■ 16, 4.044, 1.918

■ 9, 16.883, 8.534

■ 18, 1.635, 1.018

■ 8, 19.236, 9.692

■ 19, 0.679, 180.653

■ 7, 21.265, 10.379

■ 21, 2.897, 179.787

■ 6, 23.215, 10.251

■ 23, 5.020, 179.161

■ 5, 23.783, 10.089

■ 24, 7.053, 178.606

■ 26, 9.001, 178.101

■ 28, 10.870,
177.638

Harmonies

Complementary

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



13, 9.108, 3.988



17, 8.139, 177.697

Rectangle

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



13, 9.108, 3.988



13, 9.108, 53.988



13, 9.108, 183.988



13, 9.108, 233.988

Sweetspot

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



13, 9.107, 3.991



23, 3.180, 1.431



13, 13.516, 318.599



10, 2.162, 1.435



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



13, 9.107, 3.991



16, 13.471, 5.187



14, 7.482, 44.376



7, 1.177, 1.104



16, 40.100, 21.780



45, 80.036, 27.291

Inverse Universe

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



13, 9.107, 3.991



16, 13.471, 5.187



16, 6.133, 227.652



7, 1.177, 1.104



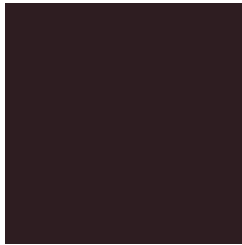
16, 40.100, 21.780



45, 80.036, 27.291

Previews

White Background



This preview shows how the CIELCh color 13, 9.108, 3.988 looks on a white background.

Color Contrast Check

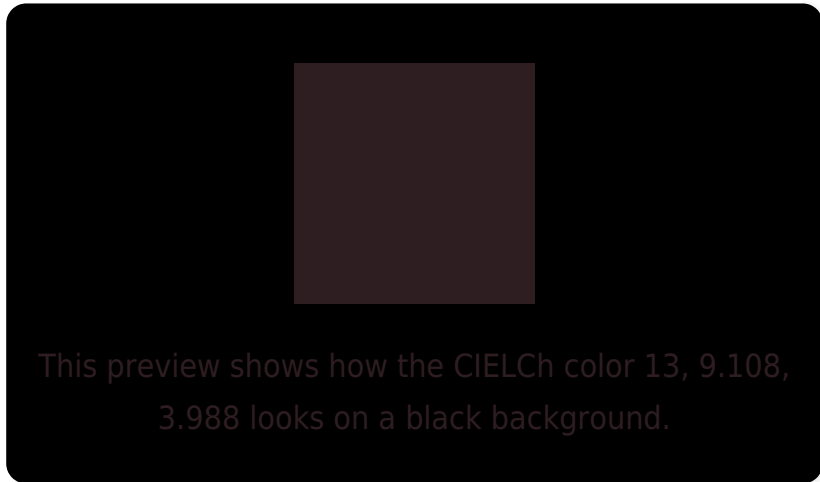
Large Text (above 18pt) WCAG AA ✓ Pass

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

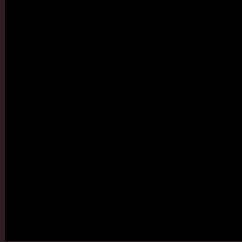
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 9.108, 3.988

Background



This preview shows how black text looks on a background with the CIELCh color 13, 9.108, 3.988.

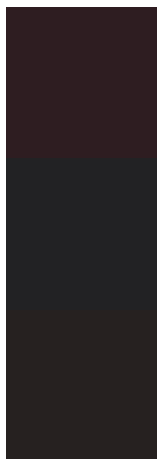


This preview shows how white text looks on a background with the CIELCh color 13, 9.108, 3.988.

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, 9.108, 3.988

Protanopia

13, 1.435, 290.612

Deuteranopia

13, 2.643, 35.598



Tritanopia
13, 8.937, 12.905

Trichromacy



Original Color

13, 9.108, 3.988

Protanomaly

13, 3.681, 344.657

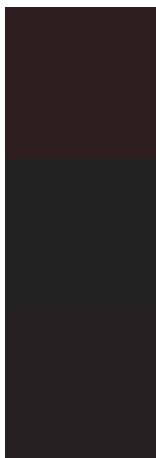
Deuteranomaly

13, 4.620, 20.595

Tritanomaly

13, 8.993, 8.401

Monochromacy



Original Color

13, 9.108, 3.988

Achromatopsia

13, 0.003, 296.813

Achromatomaly

13, 3.330, 354.826

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 9.108, 3.988 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(46, 29, 33)` looks like.

```
.text, #text, p{  
    color:rgb(46, 29, 33)  
}
```

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(46, 29, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 29, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 9.108, 3.988 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(46, 29, 33) }
```

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

```
.border{ border-color:rgb(46, 29, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 29, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 29, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 29, 33);  
box-shadow:4px 4px 4px 4px rgb(46, 29, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 9.108, 3.988 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 29, 33) }
```

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

```
.background{ background-color: rgb(46, 29,  
33) }
```

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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