

Converting Colors

CIELCh(12, 34.083, 14.419)

Have a look what the booklet for
CIELCh(12, 34.083, 14.419) contains.

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Color

CIELCh(12, 33.979, 14.678)

Conversions

Conversions Part 1

Format	Color
Hex	470015
RGB	71, 0, 21
RGB Percent	28%, 0%, 8%
CMY	0.7207, 0.9993, 0.9169
CMYK	0.00, 1.00, 0.70, 0.72
HSL	342°, 100%, 14%
HSV	342°, 100%, 28%
XYZ	2.7533, 1.4064, 0.8445
YIQ	23.6230, 35.5750, 21.5830

Conversions

Conversions Part 2

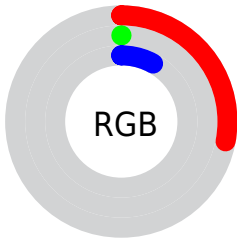
Format	Color
R_{YB}	71, 0, 21
Decimal	4653077
CIE _{Lab}	12.00, 32.87, 8.61
CIE _{LCh}	12, 33.979, 14.678
Yxy	1.4064, 0.5502, 0.2810
Android (android.graphics.Color)	4282843157 (0xFF470015)
YUV	23.6230, -1.2931, 41.5496
Hunter-Lab	11.8591, 20.6894, 4.0790

Details

The CIELCh color **12, 33.979, 14.678** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **26, 26.921, 164.726**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **32, 33.999, 14.483**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 34.054, 14.729**, and if you desaturate by 10%, it is **13, 31.081, 11.926**.

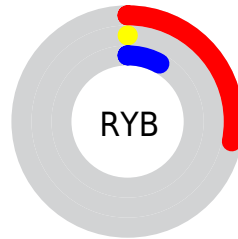
Distribution



Red (28%)

Green (0%)

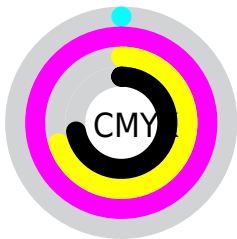
Blue (8%)



Red (28%)

Yellow (0%)

Blue (8%)

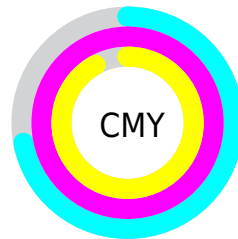


Cyan (0%)

Magenta (100%)

Yellow (70%)

Black (72%)



Cyan (72%)

Magenta (100%)

Yellow (92%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 33.979, 14.678 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 12, 33.979, 14.678 by changing the saturation by 10% instead.

 12, 33.979, 14.678

 12, 33.979, 14.678

 100, 33.979,
14.678

 2, 33.979, 14.678

 32, 33.979, 14.678

 0, 33.979, 14.678

 42, 33.979, 14.678

 52, 33.979, 14.678

 62, 33.979, 14.678

 72, 33.979, 14.678

 82, 33.979, 14.678

 92, 33.979, 14.678

■ 12, 33.979, 14.678

■ 12, 33.979, 14.678

■ 12, 34.054, 14.729

■ 13, 31.081, 11.926

■ 14, 28.429, 8.653

■ 16, 25.367, 5.920

■ 17, 21.937, 3.705

■ 19, 18.275, 1.891

■ 21, 14.507, 0.384

■ 23, 10.730,
359.107

■ 26, 7.013, 358.005

■ 28, 3.401, 357.019

Harmonies

Complementary

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



12, 33.979, 14.678



26, 26.921, 164.726

Rectangle

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



12, 33.979, 14.678



12, 33.979, 64.678



12, 33.979, 194.678



12, 33.979, 244.678

Sweetspot

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



12, 33.977, 14.680



30, 13.382, 359.274



10, 47.384, 318.334



13, 9.018, 359.501



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



12, 33.977, 14.680



17, 40.831, 17.174



14, 33.507, 38.734



13, 1.944, 356.907



19, 43.284, 17.810



48, 80.841, 22.341

Inverse Universe

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



12, 33.977, 14.680



17, 40.831, 17.174



22, 17.370, 231.095



13, 1.944, 356.907



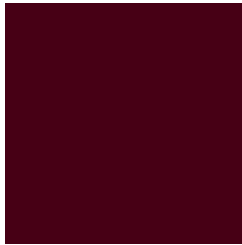
19, 43.284, 17.810



48, 80.841, 22.341

Previews

White Background



This preview shows how the CIELCh color 12, 33.979, 14.678 looks on a white background.

Color Contrast Check

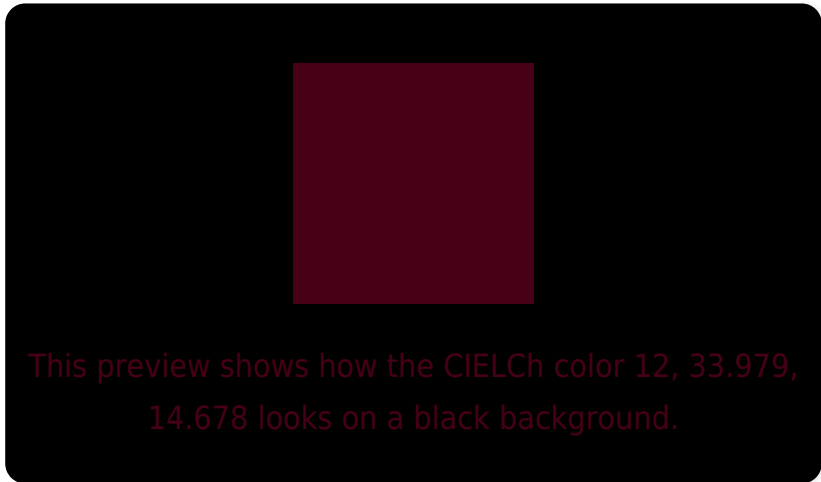
Large Text (above 18pt) WCAG AA ✓ Pass

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

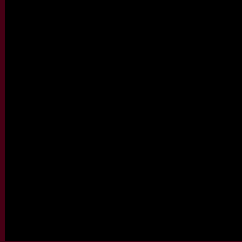
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 33.979, 14.678

Background



This preview shows how black text looks on a background with the CIELCh color 12, 33.979, 14.678.



This preview shows how white text looks on a background with the CIELCh color 12, 33.979, 14.678.

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

12, 33.979, 14.678

Protanopia

14, 3.682, 92.984

Deuteranopia

14, 13.197, 81.450



Tritanopia
13, 33.313, 31.064

Trichromacy



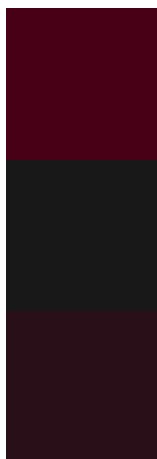
Original Color
12, 33.979, 14.678

Protanomaly
12, 14.492, 13.086

Deuteranomaly
12, 18.830, 31.068

Tritanomaly
13, 33.308, 26.093

Monochromacy



Original Color
12, 33.979, 14.678

Achromatopsia
8, 0.002, 296.813

Achromatomaly
8, 14.683, 2.150

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 33.979, 14.678 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(71, 0, 21)` looks like.

```
.text, #text, p{  
    color:rgb(71, 0, 21)  
}
```

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(71, 0, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 0, 21) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 33.979, 14.678 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(71, 0, 21) }
```

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

```
.border{ border-color:rgb(71, 0, 21) }
```

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

Here you see how a box with a 4 pixel rgb(71, 0, 21) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 0, 21); -webkit-box-shadow:4px  
4px 4px 4px rgb(71, 0, 21); box-shadow:4px  
4px 4px 4px rgb(71, 0, 21) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 33.979, 14.678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 0, 21) }
```

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

```
.background{ background-color: rgb(71, 0,  
21) }
```

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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