

Converting Colors

CIELCh(12, 33.784, 3.374)

Have a look what the booklet for
CIELCh(12, 33.784, 3.374) contains.

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Color

CIELCh(12, 33.642, 3.797)

Conversions

Conversions Part 1

Format	Color
Hex	47001E
RGB	71, 0, 30
RGB Percent	28%, 0%, 12%
CMY	0.7234, 1.0000, 0.8837
CMYK	0.00, 1.00, 0.58, 0.72
HSL	335°, 100%, 14%
HSV	335°, 100%, 28%
XYZ	2.7911, 1.4064, 1.3289
YIQ	24.6490, 32.6860, 24.3820

Conversions

Conversions Part 2

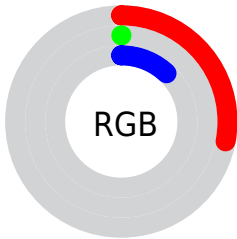
Format	Color
R_{YB}	71, 0, 30
Decimal	4653086
CIE Lab	12.00, 33.57, 2.23
CIE LCh	12, 33.642, 3.797
Yxy	1.4064, 0.5050, 0.2545
Android (android.graphics.Color)	4282843166 (0xFF47001E)
YUV	24.6490, 2.6380, 40.6498
Hunter-Lab	11.8591, 21.2572, 1.6573

Details

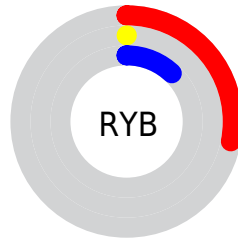
The CIELCh color **12, 33.642, 3.797** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **26, 30.768, 156.252**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **32, 33.633, 4.555**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 33.493, 3.944**, and if you desaturate by 10%, it is **13, 31.012, 1.544**.

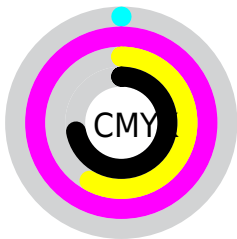
Distribution



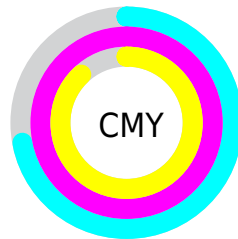
- Red (28%)
- Green (0%)
- Blue (12%)



- Red (28%)
- Yellow (0%)
- Blue (12%)



- Cyan (0%)
- Magenta (100%)
- Yellow (58%)
- Black (72%)




- Cyan (72%)
- Magenta (100%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 33.642, 3.797 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, 33.642, 3.797 by changing the saturation by 10% instead.

 12, 33.642, 3.797  12, 33.642, 3.797

 100, 33.642, 3.797  2, 33.642, 3.797

 32, 33.642, 3.797  0, 33.642, 3.797

 42, 33.642, 3.797


 52, 33.642, 3.797

 62, 33.642, 3.797

 72, 33.642, 3.797

 82, 33.642, 3.797

 92, 33.642, 3.797

 12, 33.642, 3.797  12, 33.642, 3.797

■ 12, 33.493, 3.944

■ 13, 31.012, 1.544

■ 14, 28.746,
358.865

■ 16, 25.953,
356.620

■ 17, 22.674,
354.783

■ 19, 19.064,
353.252

■ 21, 15.264,
351.952

■ 23, 11.389,
350.826

■ 25, 7.521, 349.831

■ 28, 3.714, 348.925

Harmonies

Complementary

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



12, 33.642, 3.797



26, 30.768, 156.252

Rectangle

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



12, 33.642, 3.797



12, 33.642, 53.797



12, 33.642, 183.797



12, 33.642, 233.797

Sweetspot

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



12, 33.493, 3.944



31, 14.183, 350.953



8, 48.285, 314.716



13, 9.547, 351.155



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, 33.493, 3.944



18, 40.025, 5.949



12, 35.275, 32.467



13, 2.086, 348.801



19, 42.320, 6.489



48, 77.508, 10.454

Inverse Universe

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



12, 33.493, 3.944



18, 40.025, 5.949



25, 18.370, 206.462



13, 2.086, 348.801



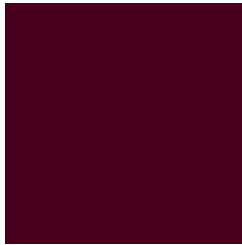
19, 42.320, 6.489



48, 77.508, 10.454

Previews

White Background



This preview shows how the CIELCh color 12, 33.642, 3.797 looks on a white background.

Color Contrast Check

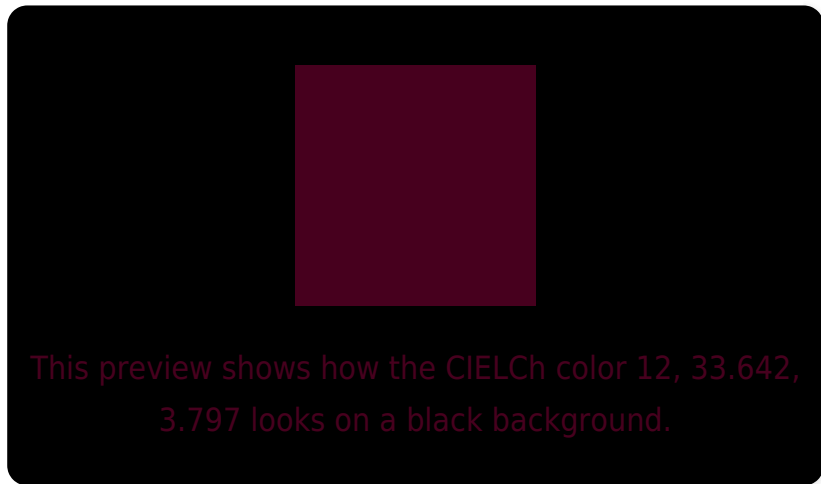
Large Text (above 18pt) WCAG AA ✓ Pass

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

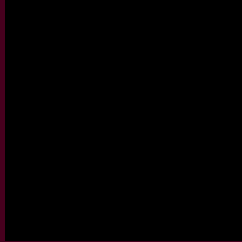
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 33.642, 3.797

Background



This preview shows how black text looks on a background with the CIELCh color 12, 33.642, 3.797.



This preview shows how white text looks on a background with the CIELCh color 12, 33.642, 3.797.

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, 33.642, 3.797

Protanopia

14, 4.988, 286.332

Deuteranopia

14, 7.147, 71.701



Tritanopia
13, 31.458, 30.211

Trichromacy



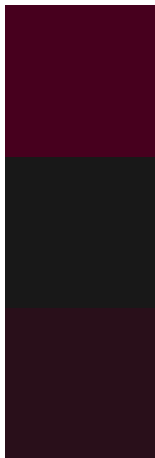
Original Color
12, 33.642, 3.797

Protanomaly
12, 15.884, 342.419

Deuteranomaly
12, 16.579, 10.548

Tritanomaly
13, 31.363, 21.750

Monochromacy



Original Color
12, 33.642, 3.797

Achromatopsia
8, 0.002, 296.813

Achromatomaly
8, 15.257, 354.047

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 12, 33.642, 3.797 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, 30)` looks like.

```
.text, #text, p{  
    color:rgb(71, 0, 30)  
}
```

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, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 0, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 33.642, 3.797 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, 30) }
```

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

```
.border{ border-color:rgb(71, 0, 30) }
```

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, 30)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 0, 30); -webkit-box-shadow:4px  
4px 4px 4px rgb(71, 0, 30); box-shadow:4px  
4px 4px 4px rgb(71, 0, 30) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 33.642, 3.797 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, 30) }
```

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

```
.background{ background-color: rgb(71, 0,  
30) }
```

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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