

Converting Colors

CIELCh(12, 33.403, 338.718)

Have a look what the booklet for
CIELCh(12, 33.403, 338.718)
contains.

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Color

CIELCh(12, 33.579, 338.420)

Conversions

Conversions Part 1

Format	Color
Hex	3F0631
RGB	63, 6, 49
RGB Percent	25%, 2%, 19%
CMY	0.7531, 0.9766, 0.8080
CMYK	0.00, 0.91, 0.22, 0.75
HSL	315°, 83%, 14%
HSV	315°, 91%, 25%
XYZ	2.6658, 1.4064, 3.0329
YIQ	27.9450, 20.1690, 25.4570

Conversions

Conversions Part 2

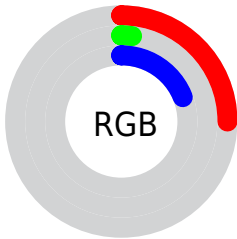
Format	Color
R_{YB}	63, 6, 49
Decimal	4130353
CIE _{Lab}	12.00, 31.23, -12.35
CIE _{LCh}	12, 33.579, 338.420
Yxy	1.4064, 0.3752, 0.1979
Android (android.graphics.Color)	4282320433 (0xFF3F0631)
YUV	27.9450, 10.3801, 30.7432
Hunter-Lab	11.8591, 19.3719, -6.8616




Details

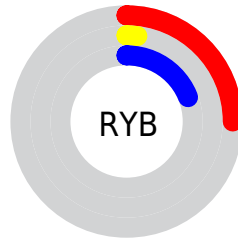
The CIELCh color **12, 33.579, 338.420** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **22, 35.211, 143.261**, and the grayscale version is **10, 0.003, 296.813**.




A 20% lighter version of the original color is **32, 33.509, 338.549**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **11, 35.944, 339.151**, and if you desaturate by 10%, it is **13, 31.299, 337.556**.

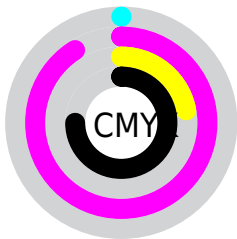
Distribution







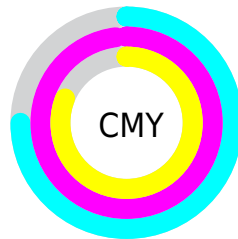
-  Red (25%)
-  Green (2%)
-  Blue (19%)






-  Red (25%)
-  Yellow (2%)
-  Blue (19%)



-  Cyan (0%)
-  Magenta (91%)
-  Yellow (22%)
-  Black (75%)



-  Cyan (75%)
-  Magenta (98%)
-  Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 33.579, 338.420 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, 33.579, 338.420 by changing the saturation by 10% instead.

■ 12, 33.579,
338.420

■ 12, 33.579,
338.420

■ 100, 33.579,
338.420

■ 2, 33.579, 338.420

■ 32, 33.579,
338.420

■ 0, 33.579, 338.420

■ 42, 33.579,
338.420


■ 52, 33.579,
338.420


■ 62, 33.579,
338.420


■ 72, 33.579,
338.420


■ 82, 33.579,


338.420

 92, 33.579,
338.420


 12, 33.579,
338.420


 12, 33.579,
338.420


 11, 35.944,
339.151

 13, 31.299,
337.556

 14, 28.519,
336.735

 16, 25.159,
335.980

 17, 21.374,
335.271

 19, 17.307,
334.599

■ 21, 13.077,
333.956

■ 23, 8.779, 333.338

■ 25, 4.480, 332.735

■ 27, 0.226, 331.575

Harmonies

Complementary

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



12, 33.579, 338.420



22, 35.211, 143.261

Rectangle

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



12, 33.579, 338.420



12, 33.579, 28.420



12, 33.579, 158.420



12, 33.579, 208.420

Sweetspot

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



12, 33.578, 338.420



28, 14.354, 333.809



6, 40.882, 306.083



12, 9.507, 333.868



69, 0.009, 296.813



16, 0.003, 296.813

Same Dimension

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



12, 33.578, 338.420



16, 42.461, 339.747



11, 28.624, 13.564



10, 2.303, 332.604



19, 46.779, 340.040



50, 86.011, 341.258

Inverse Universe

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



12, 33.578, 338.420



16, 42.461, 339.747



23, 22.295, 168.633



10, 2.303, 332.604



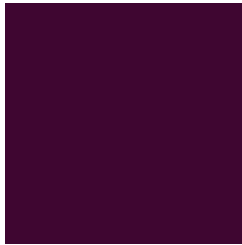
19, 46.779, 340.040



50, 86.011, 341.258

Previews

White Background



This preview shows how the CIELCh color 12, 33.579, 338.420 looks on a white background.

Color Contrast Check

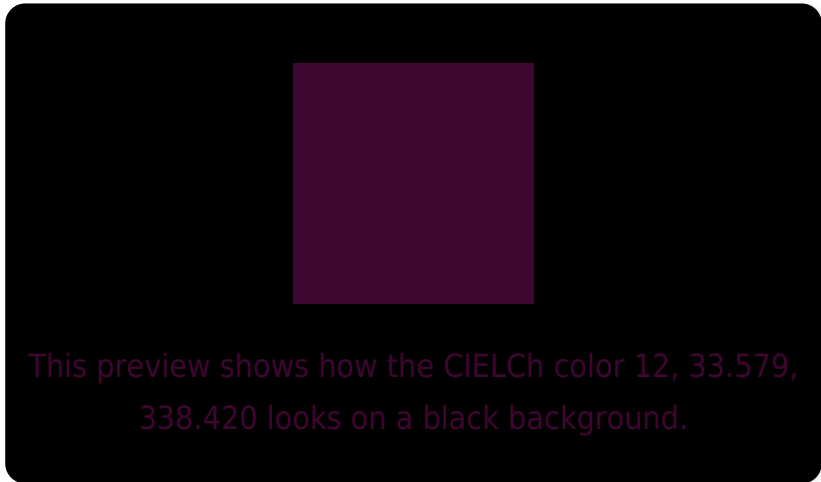
Large Text (above 18pt) WCAG AA ✓ Pass

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

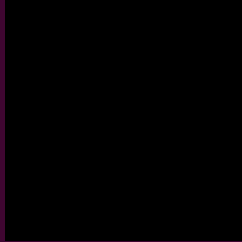
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 33.579, 338.420

Background



This preview shows how black text looks on a background with the CIELCh color 12, 33.579, 338.420.



This preview shows how white text looks on a background with the CIELCh color 12, 33.579, 338.420.

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, 33.579, 338.420

Protanopia

13, 25.991, 284.462

Deuteranopia

14, 8.612, 286.862



Tritanopia
13, 22.403, 25.280

Trichromacy



Original Color
12, 33.579, 338.420

Protanomaly
11, 28.477, 302.797

Deuteranomaly
12, 18.506, 321.368

Tritanomaly
12, 24.495, 3.519

Monochromacy



Original Color
12, 33.579, 338.420

Achromatopsia
10, 0.003, 296.813

Achromatomaly
10, 15.234, 334.702

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 33.579, 338.420 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(63, 6, 49)` looks like.

```
.text, #text, p{  
    color:rgb(63, 6, 49)  
}
```

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(63, 6, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 6, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 33.579, 338.420 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(63, 6, 49) }
```

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

```
.border{ border-color:rgb(63, 6, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 6, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 6, 49); -webkit-box-shadow:4px  
4px 4px 4px rgb(63, 6, 49); box-shadow:4px  
4px 4px 4px rgb(63, 6, 49) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 33.579, 338.420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 6, 49) }
```

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

```
.background{ background-color: rgb(63, 6,  
49) }
```

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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