

Converting Colors

CIE LCh(12, 33.349, 3.162)

Have a look what the booklet for
CIELCh(12, 33.349, 3.162) contains.

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Color

CIELCh(12, 33.349, 3.162)

Conversions

Conversions Part 1

Format	Color
Hex	46001E
RGB	70, 0, 30
RGB Percent	27%, 0%, 12%
CMY	0.7248, 0.9994, 0.8818
CMYK	0.00, 1.00, 0.57, 0.72
HSL	334°, 100%, 14%
HSV	334°, 100%, 28%
XYZ	2.7764, 1.4064, 1.3628
YIQ	24.3500, 32.0900, 24.1700

Conversions

Conversions Part 2

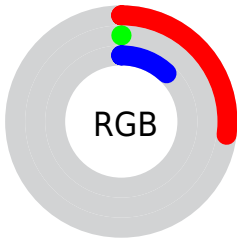
Format	Color
R_{YB}	70, 0, 30
Decimal	4587550
CIE _{Lab}	12.00, 33.30, 1.84
CIE _{LCh}	12, 33.349, 3.162
Yxy	1.4064, 0.5007, 0.2536
Android (android.graphics.Color)	4282777630 (0xFF46001E)
YUV	24.3500, 2.7854, 40.0350
Hunter-Lab	11.8591, 21.0370, 1.4878

Details

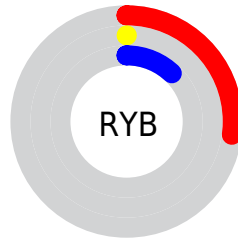
The CIELCh color **12, 33.349, 3.162** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **25, 30.864, 155.827**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **32, 33.367, 3.196**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 33.404, 3.209**, and if you desaturate by 10%, it is **13, 30.892, 0.806**.

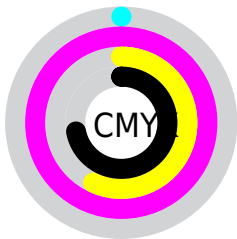
Distribution



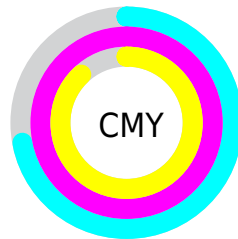
- Red (27%)
- Green (0%)
- Blue (12%)



- Red (27%)
- Yellow (0%)
- Blue (12%)



- Cyan (0%)
- Magenta (100%)
- Yellow (57%)
- Black (72%)



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

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 33.349, 3.162 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, 33.349, 3.162 by changing the saturation by 10% instead.

 12, 33.349, 3.162  12, 33.349, 3.162

 100, 33.349, 3.162  2, 33.349, 3.162

 32, 33.349, 3.162  0, 33.349, 3.162

 42, 33.349, 3.162

 52, 33.349, 3.162

 62, 33.349, 3.162

 72, 33.349, 3.162

 82, 33.349, 3.162

 92, 33.349, 3.162

 12, 33.349, 3.162  12, 33.349, 3.162

■ 12, 33.404, 3.209

■ 13, 30.892, 0.806

■ 14, 28.639,
358.184

■ 16, 25.851,
355.990

■ 17, 22.577,
354.191

■ 19, 18.973,
352.690

■ 21, 15.178,
351.411

■ 23, 11.307,
350.302

■ 25, 7.442, 349.319

■ 28, 3.637, 348.421

Harmonies

Complementary

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



12, 33.349, 3.162



25, 30.864, 155.827

Rectangle

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



12, 33.349, 3.162



12, 33.349, 53.162



12, 33.349, 183.162



12, 33.349, 233.162

Sweetspot

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



12, 33.347, 3.163



31, 14.246, 350.453



8, 48.011, 314.714



13, 9.588, 350.652



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, 33.347, 3.163



18, 40.036, 5.222



12, 35.044, 32.371



13, 2.097, 348.318



19, 42.326, 5.754



48, 77.432, 9.662

Inverse Universe

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



12, 33.347, 3.163



18, 40.036, 5.222



25, 18.290, 206.442



13, 2.097, 348.318



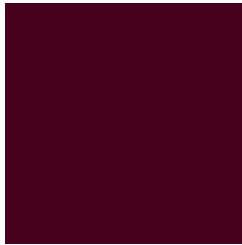
19, 42.326, 5.754



48, 77.432, 9.662

Previews

White Background



This preview shows how the CIELCh color 12, 33.349, 3.162 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

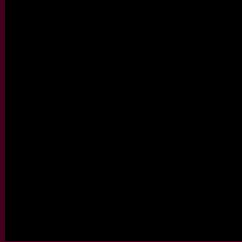
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 33.349, 3.162

Background



This preview shows how black text looks on a background with the CIELCh color 12, 33.349, 3.162.



This preview shows how white text looks on a background with the CIELCh color 12, 33.349, 3.162.

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, 33.349, 3.162

Protanopia

14, 5.737, 282.769

Deuteranopia

14, 7.147, 71.701



Tritanopia
13, 30.797, 29.281

Trichromacy



Original Color

12, 33.349, 3.162

Protanomaly

12, 15.982, 338.993

Deuteranomaly

12, 16.579, 10.548

Tritanomaly

13, 30.766, 20.298

Monochromacy



Original Color

12, 33.349, 3.162

Achromatopsia

9, 0.002, 296.813

Achromatomaly

8, 14.812, 352.594

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 12, 33.349, 3.162 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(70, 0, 30)` looks like.

```
.text, #text, p{  
    color:rgb(70, 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(70, 0, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 0, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 33.349, 3.162 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(70, 0, 30) }
```

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

```
.border{ border-color:rgb(70, 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(70, 0, 30)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 0, 30); -webkit-box-shadow:4px  
4px 4px 4px rgb(70, 0, 30); box-shadow:4px  
4px 4px 4px rgb(70, 0, 30) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 33.349, 3.162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 0, 30) }
```

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

```
.background{ background-color: rgb(70, 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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