

Converting Colors

CIELCh(12, 16.473, 69.741)

Have a look what the booklet for
CIELCh(12, 16.473, 69.741) contains.

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Color

CIELCh(12, 16.473, 69.741)

Conversions

Conversions Part 1

Format	Color
Hex	2D1C06
RGB	45, 28, 6
RGB Percent	18%, 11%, 2%
CMY	0.8233, 0.8899, 0.9760
CMYK	0.00, 0.38, 0.86, 0.82
HSL	34°, 76%, 10%
HSV	34°, 86%, 18%
XYZ	1.5353, 1.4064, 0.3660
YIQ	30.5750, 17.1940, -3.2380

Conversions

Conversions Part 2

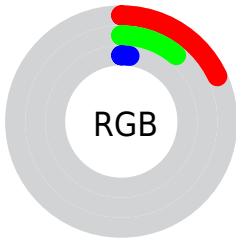
Format	Color
RYB	36, 45, 6
Decimal	2956294
CIELab	12.00, 5.70, 15.45
CIElCh	12, 16.473, 69.741
Yxy	1.4064, 0.4642, 0.4252
Android (android.graphics.Color)	4281146374 (0xFF2D1C06)
YUV	30.5750, -12.1155, 12.6507
Hunter-Lab	11.8591, 2.3563, 6.4713

Details

The CIELCh color **12, 16.473, 69.741** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **8, 17.026, 277.635**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 16.545, 69.029**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **11, 17.671, 67.735**, and if you desaturate by 10%, it is **13, 15.291, 72.083**.

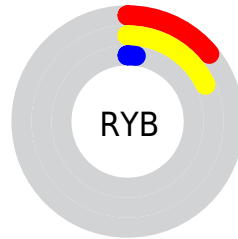
Distribution



Red (18%)

Green (11%)

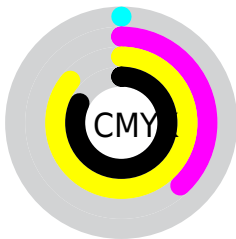
Blue (2%)



Red (14%)

Yellow (18%)

Blue (2%)

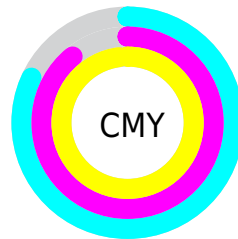


Cyan (0%)

Magenta (38%)

Yellow (86%)

Black (82%)



Cyan (82%)

Magenta (89%)

Yellow (98%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 16.473, 69.741 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, 16.473, 69.741 by changing the saturation by 10% instead.

 12, 16.473, 69.741

 12, 16.473, 69.741

 100, 16.473,
69.741

 2, 16.473, 69.741

 32, 16.473, 69.741

 0, 16.473, 69.741

 42, 16.473, 69.741

 52, 16.473, 69.741

 62, 16.473, 69.741

 72, 16.473, 69.741

 82, 16.473, 69.741

 92, 16.473, 69.741

■ 12, 16.473, 69.741

■ 12, 16.473, 69.741

■ 11, 17.671, 67.735

■ 13, 15.291, 72.083

■ 11, 18.101, 67.090

■ 13, 13.865, 74.241

■ 14, 11.994, 75.871

■ 15, 9.758, 77.026

■ 16, 7.547, 78.126

■ 16, 5.395, 79.203

■ 17, 3.305, 80.252

■ 18, 1.274, 81.237

■ 19, 0.700, 262.501

Harmonies

Complementary

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



12, 16.473, 69.741



8, 17.026, 277.635

Rectangle

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



12, 16.473, 69.741



12, 16.473, 119.741



12, 16.473, 249.741



12, 16.473, 299.741

Sweetspot

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



12, 16.473, 69.745



22, 6.636, 79.088



7, 21.583, 356.283



10, 4.509, 78.940



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



12, 16.473, 69.745



16, 24.795, 68.053



18, 23.571, 107.216



7, 1.015, 80.821



24, 36.681, 68.365



60, 73.227, 65.696

Inverse Universe

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



8, 17.026, 277.635



9, 24.812, 283.007



3, 26.377, 296.373



7, 1.039, 263.113



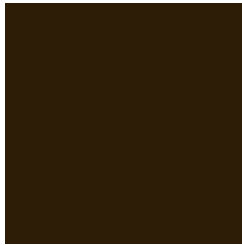
16, 34.379, 286.154



42, 72.413, 290.135

Previews

White Background



This preview shows how the CIELCh color 12, 16.473, 69.741 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



This preview shows how the CIELCh color 12, 16.473, 69.741 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

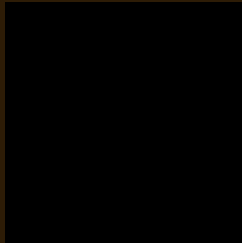
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 16.473, 69.741

Background



This preview shows how black text looks on a background with the CIELCh color 12, 16.473, 69.741.

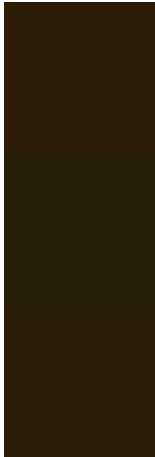


This preview shows how white text looks on a background with the CIELCh color 12, 16.473, 69.741.

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, 16.473, 69.741

Protanopia

12, 15.198, 98.106

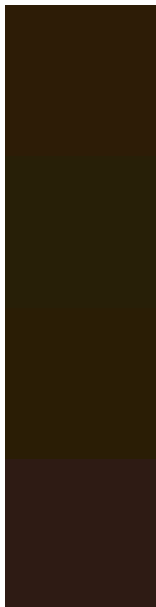
Deuteranopia

12, 15.704, 85.071



Tritanopia
12, 10.666, 15.062

Trichromacy



Original Color
12, 16.473, 69.741

Protanomaly
12, 15.138, 88.981

Deuteranomaly
12, 15.937, 78.395

Tritanomaly
12, 12.055, 45.899

Monochromacy



Original Color
12, 16.473, 69.741

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 6.689, 78.844

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 16.473, 69.741 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(45, 28, 6)` looks like.

```
.text, #text, p{  
    color:rgb(45, 28, 6)  
}
```

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(45, 28, 6) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 28, 6) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 16.473, 69.741 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(45, 28, 6) }
```

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

```
.border{ border-color:rgb(45, 28, 6) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 28, 6)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 28, 6); -webkit-box-shadow:4px  
4px 4px 4px rgb(45, 28, 6); box-shadow:4px  
4px 4px 4px rgb(45, 28, 6) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 16.473, 69.741 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 28, 6) }
```

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

```
.background{ background-color: rgb(45, 28,  
6) }
```

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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