

Converting Colors

CIElCh(1, 68.738, 14.391)

Have a look what the booklet for
CIELCh(1, 68.738, 14.391) contains.

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Color

CIELCh(12, 36.691, 28.325)

Conversions

Conversions Part 1

Format	Color
Hex	480004
RGB	72, 0, 4
RGB Percent	28%, 0%, 2%
CMY	0.7162, 0.9988, 0.9861
CMYK	0.00, 1.00, 0.95, 0.72
HSL	357°, 99%, 14%
HSV	357°, 100%, 28%
XYZ	2.7227, 1.4064, 0.2294
YIQ	21.9840, 41.6280, 16.5080

Conversions

Conversions Part 2

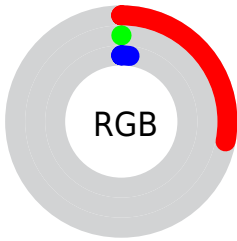
Format	Color
R_{YB}	72, 0, 4
Decimal	4718596
CIE Lab	12.00, 32.30, 17.41
CIE LCh	12, 36.691, 28.325
Yxy	1.4064, 0.6247, 0.3227
Android (android.graphics.Color)	4282908676 (0xFF480004)
YUV	21.9840, -8.8661, 43.8640
Hunter-Lab	11.8591, 20.2280, 7.1546

Details

The CIELCh color **12, 36.691, 28.325** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **27, 20.824, 190.420**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **32, 36.673, 27.674**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 36.821, 28.314**, and if you desaturate by 10%, it is **13, 33.779, 28.420**.

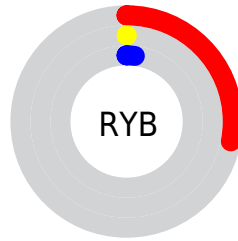
Distribution



Red (28%)

Green (0%)

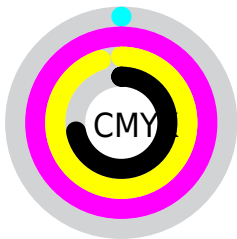
Blue (2%)



Red (28%)

Yellow (0%)

Blue (2%)

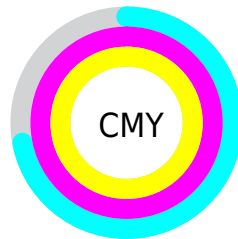


Cyan (0%)

Magenta (100%)

Yellow (95%)

Black (72%)



Cyan (72%)

Magenta (100%)

Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 36.691, 28.325 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, 36.691, 28.325 by changing the saturation by 10% instead.

 12, 36.691, 28.325

 12, 36.691, 28.325

 100, 36.691,
28.325

 2, 36.691, 28.325

 32, 36.691, 28.325

 0, 36.691, 28.325

 42, 36.691, 28.325

 52, 36.691, 28.325

 62, 36.691, 28.325

 72, 36.691, 28.325

 82, 36.691, 28.325

 92, 36.691, 28.325

■ 12, 36.691, 28.325

■ 12, 36.691, 28.325

■ 12, 36.821, 28.314

■ 13, 33.779, 28.420

■ 14, 30.660, 27.350

■ 16, 26.713, 24.993

■ 17, 22.518, 22.641

■ 19, 18.335, 20.756

■ 21, 14.254, 19.252

■ 24, 10.340, 18.046

■ 26, 6.630, 17.067

■ 28, 3.137, 16.237

Harmonies

Complementary

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



12, 36.691, 28.325



27, 20.824, 190.420

Rectangle

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



12, 36.691, 28.325



12, 36.691, 78.325



12, 36.691, 208.325



12, 36.691, 258.325

Sweetspot

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



12, 36.690, 28.328



31, 13.139, 18.224



14, 46.552, 326.456



14, 9.098, 18.470



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



12, 36.690, 28.328



17, 46.347, 33.102



18, 30.936, 57.634



13, 1.801, 16.157



19, 48.494, 33.853



47, 93.979, 38.613

Inverse Universe

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



12, 36.690, 28.328



17, 46.347, 33.102



15, 23.914, 272.981



13, 1.801, 16.157



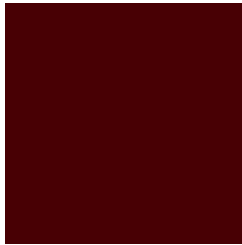
19, 48.494, 33.853



47, 93.979, 38.613

Previews

White Background



This preview shows how the CIELCh color 12, 36.691, 28.325 looks on a white background.

Color Contrast Check

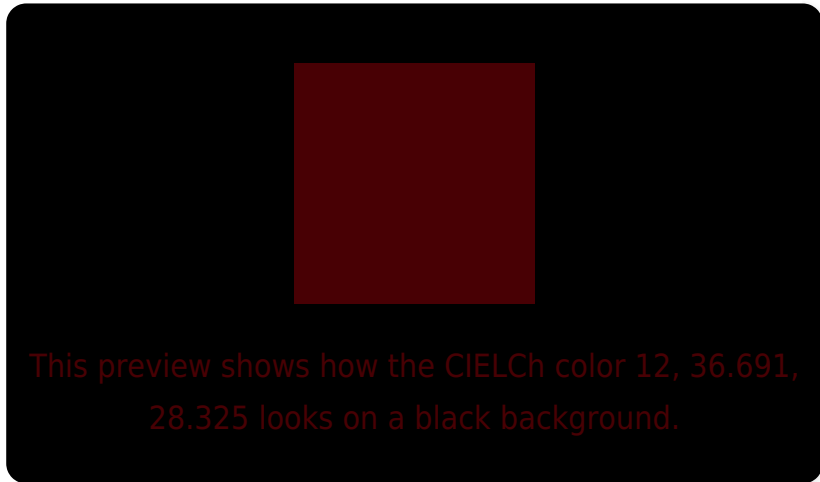
Large Text (above 18pt) WCAG AA ✓ Pass

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

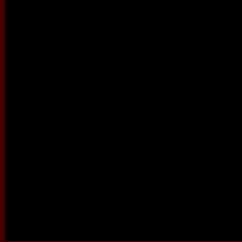
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 36.691, 28.325

Background



This preview shows how black text looks on a background with the CIELCh color 12, 36.691, 28.325.

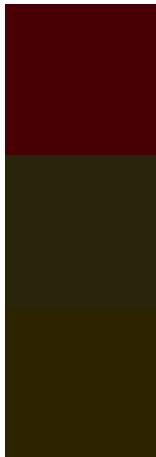


This preview shows how white text looks on a background with the CIELCh color 12, 36.691, 28.325.

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, 36.544, 27.761

Protanopia

14, 17.273, 98.237

Deuteranopia

14, 21.059, 87.697



Tritanopia
13, 35.466, 34.151

Trichromacy



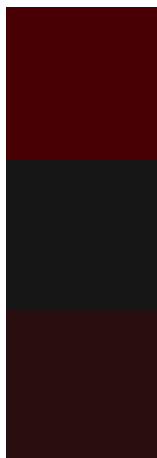
Original Color
12, 36.544, 27.761

Protanomaly
12, 19.331, 50.053

Deuteranomaly
12, 23.552, 49.601

Tritanomaly
13, 35.737, 32.403

Monochromacy



Original Color
12, 36.544, 27.761

Achromatopsia
7, 0.002, 296.812

Achromatomaly
7, 14.386, 18.755

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 36.691, 28.325 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(72, 0, 4)` looks like.

```
.text, #text, p{  
    color:rgb(72, 0, 4)  
}
```

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(72, 0, 4) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 0, 4) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 36.691, 28.325 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(72, 0, 4) }
```

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

```
.border{ border-color:rgb(72, 0, 4) }
```

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

Here you see how a box with a 4 pixel rgb(72, 0, 4) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 0, 4); -webkit-box-shadow:4px  
4px 4px 4px rgb(72, 0, 4); box-shadow:4px  
4px 4px 4px rgb(72, 0, 4) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 36.691, 28.325 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 0, 4) }
```

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

```
.background{ background-color: rgb(72, 0,  
4) }
```

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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