

Converting Colors

CIELCh(12, 35.423, 22.530)

Have a look what the booklet for
CIELCh(12, 35.423, 22.530) contains.

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Color

CIELCh(12, 35.357, 22.330)

Conversions

Conversions Part 1

Format	Color
Hex	48000D
RGB	72, 0, 13
RGB Percent	28%, 0%, 5%
CMY	0.7177, 1.0000, 0.9491
CMYK	0.00, 1.00, 0.82, 0.72
HSL	349°, 100%, 14%
HSV	349°, 100%, 28%
XYZ	2.7445, 1.4064, 0.5073
YIQ	23.0100, 38.7390, 19.3070

Conversions

Conversions Part 2

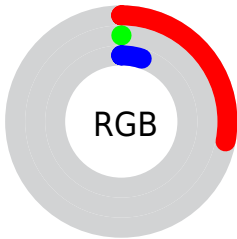
Format	Color
R_{YB}	72, 0, 13
Decimal	4718605
CIE Lab	12.00, 32.71, 13.43
CIE LCh	12, 35.357, 22.330
Yxy	1.4064, 0.5892, 0.3019
Android (android.graphics.Color)	4282908685 (0xFF48000D)
YUV	23.0100, -4.9349, 42.9642
Hunter-Lab	11.8591, 20.5564, 5.7651

Details

The CIELCh color **12, 35.357, 22.330** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **27, 23.817, 174.819**, and the grayscale version is **8, 0.002, 296.812**.

A 20% lighter version of the original color is **32, 35.589, 22.011**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 35.355, 22.333**, and if you desaturate by 10%, it is **13, 32.339, 21.131**.

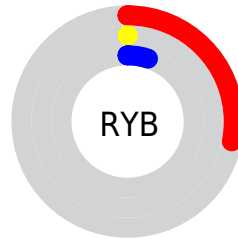
Distribution



Red (28%)

Green (0%)

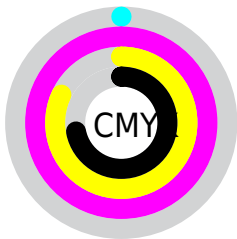
Blue (5%)



Red (28%)

Yellow (0%)

Blue (5%)

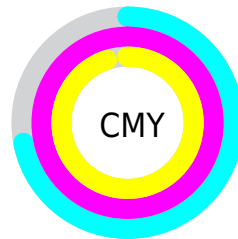


Cyan (0%)

Magenta (100%)

Yellow (82%)

Black (72%)



Cyan (72%)

Magenta (100%)

Yellow (95%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 35.357, 22.330 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, 35.357, 22.330 by changing the saturation by 10% instead.

 12, 35.357, 22.330

 12, 35.357, 22.330

 100, 35.357,
22.330

 2, 35.357, 22.330

 32, 35.357, 22.330

 0, 35.357, 22.330

 42, 35.357, 22.330

 52, 35.357, 22.330

 62, 35.357, 22.330

 72, 35.357, 22.330

 82, 35.357, 22.330

 92, 35.357, 22.330

■ 12, 35.357, 22.330

■ 12, 35.357, 22.330

■ 12, 35.355, 22.333

■ 13, 32.339, 21.131

■ 14, 29.229, 17.965

■ 16, 25.762, 14.963

■ 17, 22.049, 12.530

■ 19, 18.210, 10.559

■ 21, 14.350, 8.948

■ 24, 10.556, 7.614

■ 26, 6.881, 6.487

■ 28, 3.358, 5.500

Harmonies

Complementary

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



12, 35.357, 22.330



27, 23.817, 174.819

Rectangle

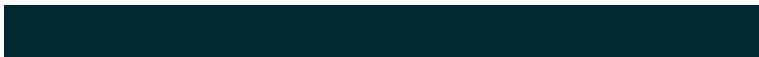
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



12, 35.357, 22.330



12, 35.357, 72.330



12, 35.357, 202.330



12, 35.357, 252.330

Sweetspot

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



12, 35.355, 22.333



31, 13.242, 7.762



12, 47.074, 321.948



14, 9.151, 8.036



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, 35.355, 22.333



18, 43.871, 26.627



15, 32.222, 46.340



13, 1.852, 5.364



19, 45.725, 27.205



48, 86.827, 31.644

Inverse Universe

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



12, 35.355, 22.333



18, 43.871, 26.627



19, 19.228, 253.295



13, 1.852, 5.364



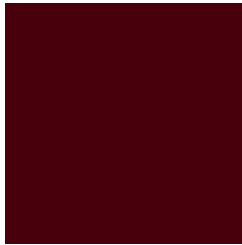
19, 45.725, 27.205



48, 86.827, 31.644

Previews

White Background



This preview shows how the CIELCh color 12, 35.357, 22.330 looks on a white background.

Color Contrast Check

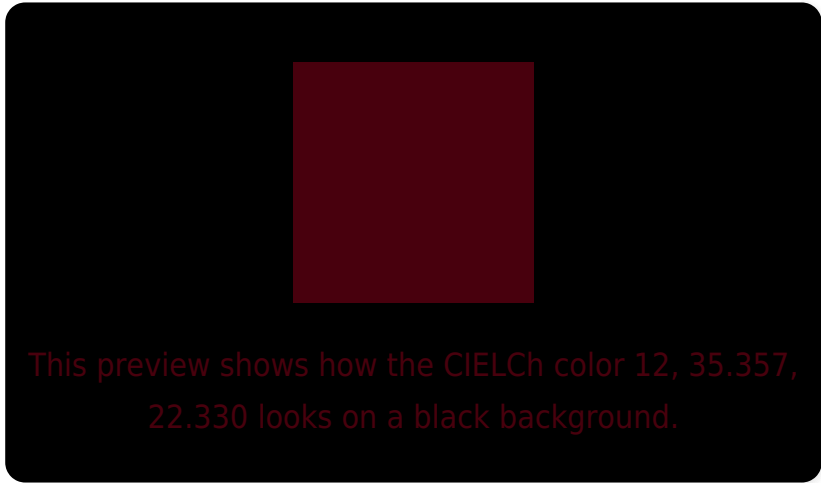
Large Text (above 18pt) WCAG AA ✓ Pass

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, 35.357, 22.330

Background



This preview shows how black text looks on a background with the CIELCh color 12, 35.357, 22.330.

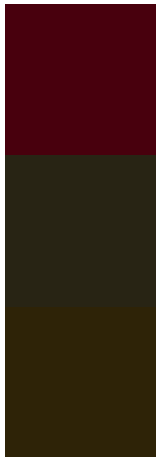


This preview shows how white text looks on a background with the CIELCh color 12, 35.357, 22.330.

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, 35.357, 22.330

Protanopia

14, 11.424, 95.748

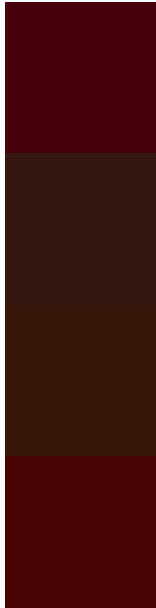
Deuteranopia

14, 18.360, 85.507



Tritanopia
13, 35.686, 33.557

Trichromacy



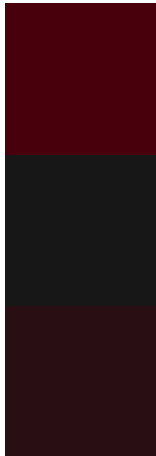
Original Color
12, 35.357, 22.330

Protanomaly
12, 17.302, 36.926

Deuteranomaly
12, 21.115, 43.543

Tritanomaly
12, 35.325, 29.526

Monochromacy



Original Color
12, 35.357, 22.330

Achromatopsia
8, 0.002, 296.812

Achromatomaly
8, 14.405, 12.488

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 35.357, 22.330 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, 13)` looks like.

```
.text, #text, p{  
    color:rgb(72, 0, 13)  
}
```

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, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 0, 13) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 35.357, 22.330 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, 13) }
```

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

```
.border{ border-color:rgb(72, 0, 13) }
```

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, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 0, 13); -webkit-box-shadow:4px  
4px 4px 4px rgb(72, 0, 13); box-shadow:4px  
4px 4px 4px rgb(72, 0, 13) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 35.357, 22.330 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, 13) }
```

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

```
.background{ background-color: rgb(72, 0,  
13) }
```

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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