

Converting Colors

CIELCh(12, 28.117, 22.322)

Have a look what the booklet for
CIELCh(12, 28.117, 22.322) contains.

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Color

CIELCh(12, 28.171, 21.755)

Conversions

Conversions Part 1

Format	Color
Hex	410B12
RGB	65, 11, 18
RGB Percent	25%, 4%, 7%
CMY	0.7451, 0.9569, 0.9294
CMYK	0.00, 0.83, 0.72, 0.75
HSL	352°, 71%, 15%
HSV	352°, 83%, 25%
XYZ	2.4082, 1.4064, 0.7165
YIQ	27.9440, 29.9370, 13.6250

Conversions

Conversions Part 2

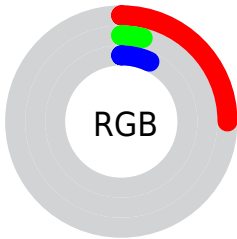
Format	Color
RYB	65, 11, 18
Decimal	4262674
CIELab	12.00, 26.16, 10.44
CIELCh	12, 28.171, 21.755
Yxy	1.4064, 0.5315, 0.3104
Android (android.graphics.Color)	4282452754 (0xFF410B12)
YUV	27.9440, -4.9024, 32.4981
Hunter-Lab	11.8591, 15.4940, 4.7192

Details

The CIELCh color **12, 28.171, 21.755** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **24, 18.944, 182.018**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 28.100, 22.283**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **11, 30.963, 22.733**, and if you desaturate by 10%, it is **13, 24.963, 19.360**.

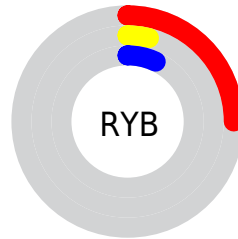
Distribution



Red (25%)

Green (4%)

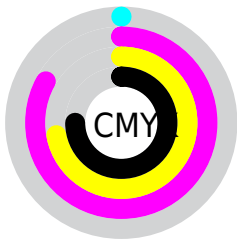
Blue (7%)



Red (25%)

Yellow (4%)

Blue (7%)

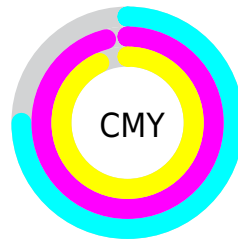


Cyan (0%)

Magenta (83%)

Yellow (72%)

Black (75%)



Cyan (75%)

Magenta (96%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 28.171, 21.755 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, 28.171, 21.755 by changing the saturation by 10% instead.

 12, 28.171, 21.755

 12, 28.171, 21.755

 100, 28.171,
21.755

 2, 28.171, 21.755

 32, 28.171, 21.755

 0, 28.171, 21.755

 42, 28.171, 21.755

 52, 28.171, 21.755

 62, 28.171, 21.755

 72, 28.171, 21.755

 82, 28.171, 21.755

 92, 28.171, 21.755

■ 12, 28.171, 21.755

■ 12, 28.171, 21.755

■ 11, 30.963, 22.733

■ 13, 24.963, 19.360

■ 10, 32.921, 22.349

■ 15, 21.435, 16.853

■ 16, 17.819, 14.822

■ 18, 14.207, 13.172

■ 20, 10.672, 11.818

■ 22, 7.264, 10.690

■ 25, 4.009, 9.726

■ 27, 0.920, 8.728

■ 29, 2.004, 188.419

Harmonies

Complementary

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



12, 28.171, 21.755



24, 18.944, 182.018

Rectangle

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



12, 28.171, 21.755



12, 28.171, 71.755



12, 28.171, 201.755



12, 28.171, 251.755

Sweetspot

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



12, 28.170, 21.757



29, 9.828, 11.005



13, 38.369, 323.500



13, 6.790, 11.171



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



12, 28.170, 21.757



15, 40.794, 27.701



16, 24.361, 52.873



12, 1.712, 9.316



18, 45.864, 29.862



47, 89.012, 34.844

Inverse Universe

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



12, 28.170, 21.757



15, 40.794, 27.701



17, 16.533, 255.283



12, 1.712, 9.316



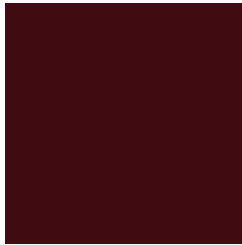
18, 45.864, 29.862



47, 89.012, 34.844

Previews

White Background



This preview shows how the CIELCh color 12, 28.171, 21.755 looks on a white background.

Color Contrast Check

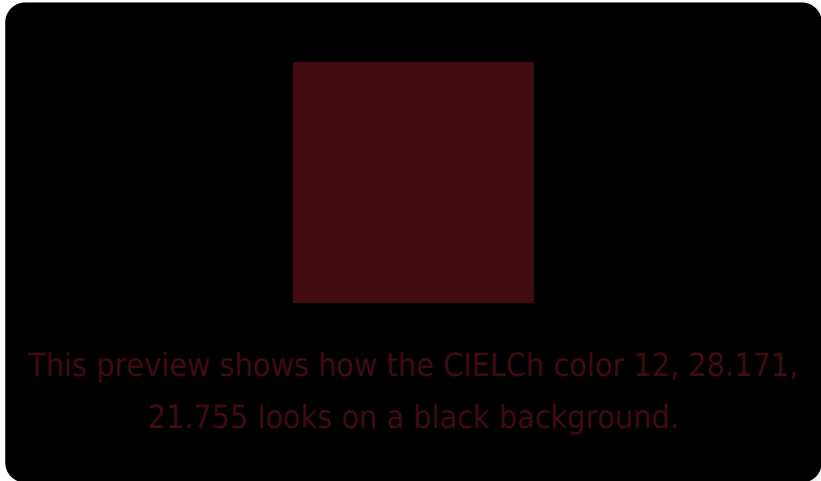
Large Text (above 18pt) WCAG AA ✓ Pass

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

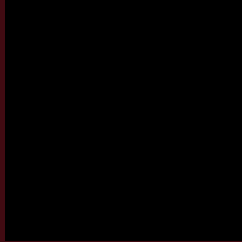
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 28.171, 21.755

Background



This preview shows how black text looks on a background with the CIELCh color 12, 28.171, 21.755.



This preview shows how white text looks on a background with the CIELCh color 12, 28.171, 21.755.

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, 28.171, 21.755

Protanopia

13, 5.797, 97.939

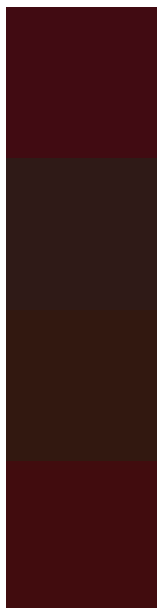
Deuteranopia

13, 12.955, 80.786



Tritanopia
12, 28.805, 28.364

Trichromacy



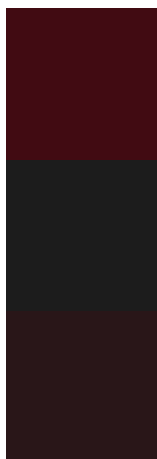
Original Color
12, 28.171, 21.755

Protanomaly
12, 11.931, 32.914

Deuteranomaly
12, 16.171, 41.775

Tritanomaly
12, 28.487, 26.636

Monochromacy



Original Color
12, 28.171, 21.755

Achromatopsia
10, 0.003, 296.813

Achromatomaly
10, 10.343, 14.868

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 28.171, 21.755 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(65, 11, 18)` looks like.

```
.text, #text, p{  
    color:rgb(65, 11, 18)  
}
```

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(65, 11, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 11, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 28.171, 21.755 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(65, 11, 18) }
```

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

```
.border{ border-color:rgb(65, 11, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 11, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 11, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 11, 18);  
box-shadow:4px 4px 4px 4px rgb(65, 11, 18)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 28.171, 21.755 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 11, 18) }
```

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

```
.background{ background-color: rgb(65, 11,  
18) }
```

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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