

Converting Colors

CIELCh(12, 71.023, 308.106)

Have a look what the booklet for
CIELCh(12, 71.023, 308.106)
contains.

CIELCh(12, 70.997, 308.111)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(12, 70.997, 308.111)

Conversions

Conversions Part 1

Format	Color
Hex	1C0070
RGB	28, 0, 112
RGB Percent	11%, 0%, 44%
CMY	0.8912, 1.0000, 0.5615
CMYK	0.75, 1.00, 0.00, 0.56
HSL	255°, 100%, 22%
HSV	255°, 100%, 44%
XYZ	3.3852, 1.4064, 15.3706
YIQ	21.1400, -19.2640, 40.7680

Conversions

Conversions Part 2

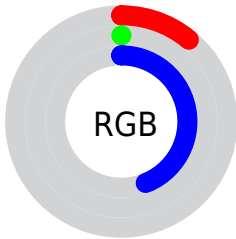
Format	Color
RYB	28, 0, 112
Decimal	1835120
CIELab	12.00, 43.82, -55.86
CIELCh	12, 70.997, 308.111
Yxy	1.4064, 0.1679, 0.0698
Android (android.graphics.Color)	4280025200 (0xFF1C0070)
YUV	21.1400, 44.7940, 6.0162
Hunter-Lab	11.8591, 30.2006, -68.5449

Details

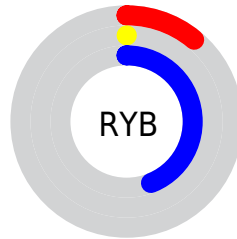
The CIELCh color **12, 70.997, 308.111** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **43, 54.669, 116.706**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **32, 71.046, 308.208**, and **3, 43.514, 301.494** is the 20% darker color. If you saturate the color by 10%, you get **12, 70.937, 308.091**, and if you desaturate by 10%, it is **14, 65.446, 307.436**.

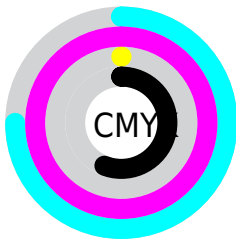
Distribution



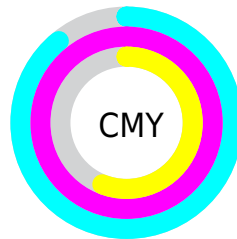
- Red (11%)
- Green (0%)
- Blue (44%)



- Red (11%)
- Yellow (0%)
- Blue (44%)



- Cyan (75%)
- Magenta (100%)
- Yellow (0%)
- Black (56%)



- Cyan (89%)
- Magenta (100%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 70.997, 308.111 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, 70.997, 308.111 by changing the saturation by 10% instead.

■ 12, 70.997,
308.111

■ 12, 70.997,
308.111

■ 100, 70.997,
308.111

■ 2, 70.997, 308.111

■ 32, 70.997,
308.111

■ 0, 70.997, 308.111

■ 42, 70.997,
308.111


■ 52, 70.997,
308.111


■ 62, 70.997,
308.111


■ 72, 70.997,
308.111


■ 82, 70.997,


308.111


 92, 70.997,
308.111


 12, 70.997,
308.111


 12, 70.997,
308.111


 12, 70.937,
308.091

 14, 65.446,
307.436

 17, 59.348,
306.787

 20, 52.129,
305.874

 24, 44.402,
304.851

 28, 36.556,
303.822

■ 31, 28.803,
302.848

■ 35, 21.242,
301.957

■ 39, 13.917,
301.159

■ 43, 6.840, 300.453

Harmonies

Complementary

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



12, 70.997, 308.111



43, 54.669, 116.706

Rectangle

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



12, 70.997, 308.111



12, 70.997, 358.111



12, 70.997, 128.111



12, 70.997, 178.111

Sweetspot

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



12, 70.937, 308.091



46, 26.373, 302.024



34, 24.283, 240.561



21, 18.235, 302.308



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



12, 70.937, 308.091



18, 85.949, 307.869



20, 64.691, 318.826



21, 3.851, 300.388



13, 74.599, 308.026



33, 128.205, 307.575

Inverse Universe

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



24, 52.450, 340.510



32, 63.078, 340.923



41, 62.847, 133.170



22, 3.854, 332.787



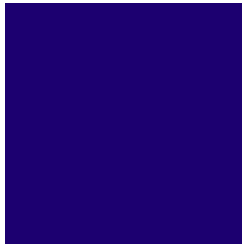
26, 55.040, 340.627



55, 93.102, 341.538

Previews

White Background



This preview shows how the CIELCh color 12, 70.997, 308.111 looks on a white background.

Color Contrast Check

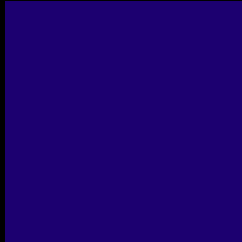
Large Text (above 18pt) WCAG AA ✓ Pass

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, 70.997, 308.111 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

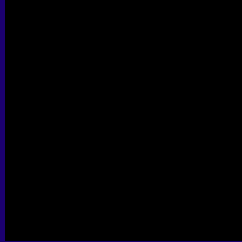
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 70.997, 308.111

Background



This preview shows how black text looks on a background with the CIELCh color 12, 70.997, 308.111.



This preview shows how white text looks on a background with the CIELCh color 12, 70.997, 308.111.

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, 70.997, 308.111

Protanopia

14, 27.544, 280.941

Deuteranopia

14, 19.579, 265.457



Tritanopia
14, 13.556, 202.648

Trichromacy



Original Color
12, 70.997, 308.111

Protanomaly
11, 46.227, 299.353

Deuteranomaly
11, 40.220, 296.933

Tritanomaly
10, 30.704, 292.347

Monochromacy



Original Color
12, 70.997, 308.111

Achromatopsia
7, 0.002, 296.812

Achromatomaly
7, 30.536, 305.164

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 70.997, 308.111 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(28, 0, 112)` looks like.

```
.text, #text, p{  
    color:rgb(28, 0, 112)  
}
```

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(28, 0, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(28, 0, 112) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 70.997, 308.111 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(28, 0, 112) }
```

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

```
.border{ border-color:rgb(28, 0, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(28, 0, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(28, 0, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(28, 0, 112);  
box-shadow:4px 4px 4px 4px rgb(28, 0, 112)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 70.997, 308.111 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(28, 0, 112) }
```

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

```
.background{ background-color: rgb(28, 0,  
112) }
```

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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