

Converting Colors

CIELCh(12, 45.261, 312.723)

Have a look what the booklet for
CIELCh(12, 45.261, 312.723)
contains.

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Color

CIELCh(12, 44.921, 312.747)

Conversions

Conversions Part 1

Format	Color
Hex	2E0D4E
RGB	46, 13, 78
RGB Percent	18%, 5%, 31%
CMY	0.8204, 0.9498, 0.6949
CMYK	0.41, 0.84, 0.00, 0.69
HSL	270°, 72%, 18%
HSV	270°, 84%, 31%
XYZ	2.6273, 1.4064, 7.3041
YIQ	30.2770, -1.1970, 27.2110

Conversions

Conversions Part 2

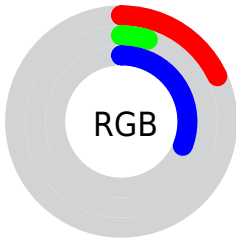
Format	Color
RYB	46, 13, 78
Decimal	3018062
CIELab	12.00, 30.49, -32.99
CIELCh	12, 44.921, 312.747
Yxy	1.4064, 0.2317, 0.1240
Android (android.graphics.Color)	4281208142 (0xFF2E0D4E)
YUV	30.2770, 23.5274, 13.7891
Hunter-Lab	11.8591, 18.7926, -28.2157




Details

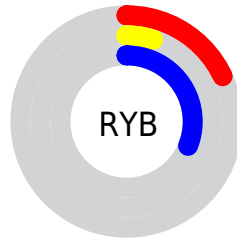
The CIELCh color **12, 44.921, 312.747** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **29, 40.189, 126.626**, and the grayscale version is **11, 0.003, 296.813**.




A 20% lighter version of the original color is **32, 44.894, 312.807**, and **1, 18.521, 289.455** is the 20% darker color. If you saturate the color by 10%, you get **10, 49.124, 312.856**, and if you desaturate by 10%, it is **14, 40.237, 312.548**.

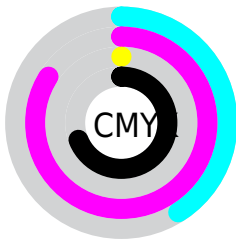
Distribution







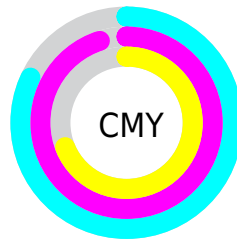
-  Red (18%)
-  Green (5%)
-  Blue (31%)






-  Red (18%)
-  Yellow (5%)
-  Blue (31%)



-  Cyan (41%)
-  Magenta (84%)
-  Yellow (0%)
-  Black (69%)



-  Cyan (82%)
-  Magenta (95%)
-  Yellow (69%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 44.921, 312.747 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, 44.921, 312.747 by changing the saturation by 10% instead.

■ 12, 44.921,
312.747

■ 12, 44.921,
312.747

■ 100, 44.921,
312.747

■ 2, 44.921, 312.747

■ 32, 44.921,
312.747

■ 0, 44.921, 312.747

■ 42, 44.921,
312.747

■ 52, 44.921,
312.747

■ 62, 44.921,
312.747


■ 72, 44.921,
312.747


■ 82, 44.921,


312.747

 92, 44.921,
312.747


 12, 44.921,
312.747


 12, 44.921,
312.747


 10, 49.124,
312.856

 14, 40.237,
312.548

 9, 52.231, 313.124

 16, 35.009,
312.197

 19, 29.487,
311.759

 21, 23.849,
311.281

 24, 18.210,
310.796

■ 27, 12.641,
310.324

■ 29, 7.183, 309.876

■ 32, 1.857, 309.440

■ 35, 3.327, 129.115

Harmonies

Complementary

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



12, 44.921, 312.747



29, 40.189, 126.626

Rectangle

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



12, 44.921, 312.747



12, 44.921, 2.747



12, 44.921, 132.747



12, 44.921, 182.747

Sweetspot

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



12, 44.921, 312.747



35, 16.842, 310.436



18, 23.413, 273.709



16, 11.369, 310.521



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



12, 44.921, 312.747



14, 63.206, 312.706



18, 44.409, 327.914



14, 2.901, 309.665



37, 115.210, 311.915

Inverse Universe

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



16, 32.610, 354.599



20, 43.409, 0.125



28, 45.402, 137.532



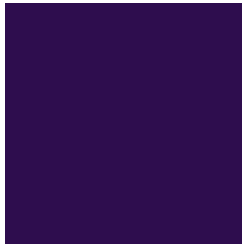
14, 2.320, 344.658



49, 78.103, 3.403

Previews

White Background



This preview shows how the CIELCh color 12, 44.921, 312.747 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, 44.921, 312.747

Background



This preview shows how black text looks on a background with the CIELCh color 12, 44.921, 312.747.



This preview shows how white text looks on a background with the CIELCh color 12, 44.921, 312.747.

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, 44.921, 312.747

Protanopia

12, 26.399, 281.202

Deuteranopia

12, 18.919, 266.207



Tritanopia
13, 2.936, 332.858

Trichromacy



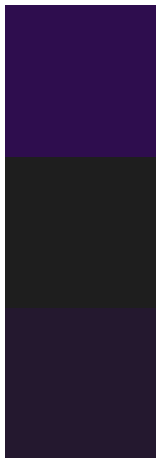
Original Color
12, 44.921, 312.747

Protanomaly
11, 33.959, 296.138

Deuteranomaly
11, 28.386, 293.250

Tritanomaly
12, 19.825, 313.656

Monochromacy



Original Color
12, 44.921, 312.747

Achromatopsia
11, 0.003, 296.813

Achromatomaly
11, 17.613, 311.778

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 44.921, 312.747 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(46, 13, 78)` looks like.

```
.text, #text, p{  
    color:rgb(46, 13, 78)  
}
```

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(46, 13, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 13, 78) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 44.921, 312.747 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(46, 13, 78) }
```

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

```
.border{ border-color:rgb(46, 13, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 13, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 13, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 13, 78);  
box-shadow:4px 4px 4px 4px rgb(46, 13, 78)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 44.921, 312.747 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 13, 78) }
```

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

```
.background{ background-color: rgb(46, 13,  
78) }
```

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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