

Converting Colors

CIELCh(12, 47.881, 321.951)

Have a look what the booklet for
CIELCh(12, 47.881, 321.951)
contains.

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Color

CIELCh(12, 47.564, 321.660)

Conversions

Conversions Part 1

Format	Color
Hex	3B0049
RGB	59, 0, 73
RGB Percent	23%, 0%, 29%
CMY	0.7689, 1.0000, 0.7140
CMYK	0.19, 1.00, 0.00, 0.71
HSL	288°, 100%, 14%
HSV	288°, 100%, 29%
XYZ	2.9989, 1.4064, 6.4046
YIQ	25.9630, 11.7310, 35.2110

Conversions

Conversions Part 2

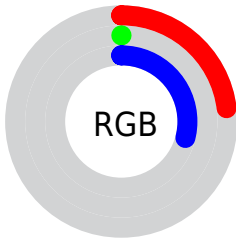
Format	Color
R_{YB}	59, 0, 73
Decimal	3866697
CIE _{Lab}	12.00, 37.31, -29.51
CIE _{LCh}	12, 47.564, 321.660
Yxy	1.4064, 0.2774, 0.1301
Android (android.graphics.Color)	4282056777 (0xFF3B0049)
YUV	25.9630, 23.1892, 28.9734
Hunter-Lab	11.8591, 24.3861, -23.7188

Details

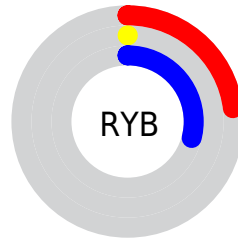
The CIELCh color **12, 47.564, 321.660** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **26, 46.934, 133.778**, and the grayscale version is **9, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 47.692, 321.622**, and **1, 15.345, 290.292** is the 20% darker color. If you saturate the color by 10%, you get **12, 47.535, 321.654**, and if you desaturate by 10%, it is **13, 44.131, 321.603**.

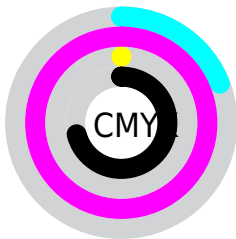
Distribution



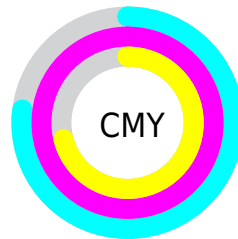
- Red (23%)
- Green (0%)
- Blue (29%)



- Red (23%)
- Yellow (0%)
- Blue (29%)



- Cyan (19%)
- Magenta (100%)
- Yellow (0%)
- Black (71%)




- Cyan (77%)
- Magenta (100%)
- Yellow (71%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 47.564, 321.660 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, 47.564, 321.660 by changing the saturation by 10% instead.

 12, 47.564,
321.660


 12, 47.564,
321.660


 100, 47.564,
321.660


 2, 47.564, 321.660


 32, 47.564,
321.660

 0, 47.564, 321.660

 42, 47.564,
321.660


 52, 47.564,
321.660


 62, 47.564,
321.660


 72, 47.564,
321.660


 82, 47.564,


321.660


 92, 47.564,
321.660


 12, 47.564,
321.660


 12, 47.564,
321.660

 12, 47.535,
321.654

 13, 44.131,
321.603

 15, 40.867,
321.618

 16, 36.864,
321.508

 18, 32.228,
321.288

 20, 27.157,
320.986

■ 22, 21.821,
320.631

■ 24, 16.355,
320.243

■ 26, 10.855,
319.839

■ 29, 5.390, 319.428

Harmonies

Complementary

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



12, 47.564, 321.660



26, 46.934, 133.778

Rectangle

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



12, 47.564, 321.660



12, 47.564, 11.660



12, 47.564, 141.660



12, 47.564, 191.660

Sweetspot

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



12, 47.535, 321.654



31, 20.252, 320.289



7, 42.961, 299.315



14, 13.939, 320.373



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, 47.535, 321.654



17, 56.742, 321.418



14, 38.124, 342.780



13, 2.947, 319.367



18, 58.878, 321.376



47, 107.754, 320.896

Inverse Universe

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



12, 35.609, 21.976



18, 43.631, 25.862



26, 40.779, 143.442



13, 1.859, 4.481



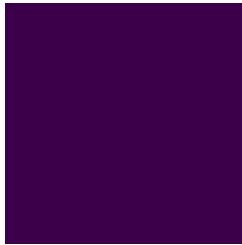
19, 45.452, 26.401



48, 86.154, 30.825

Previews

White Background



This preview shows how the CIE LCh color 12, 47.564, 321.660 looks on a white background.

Color Contrast Check

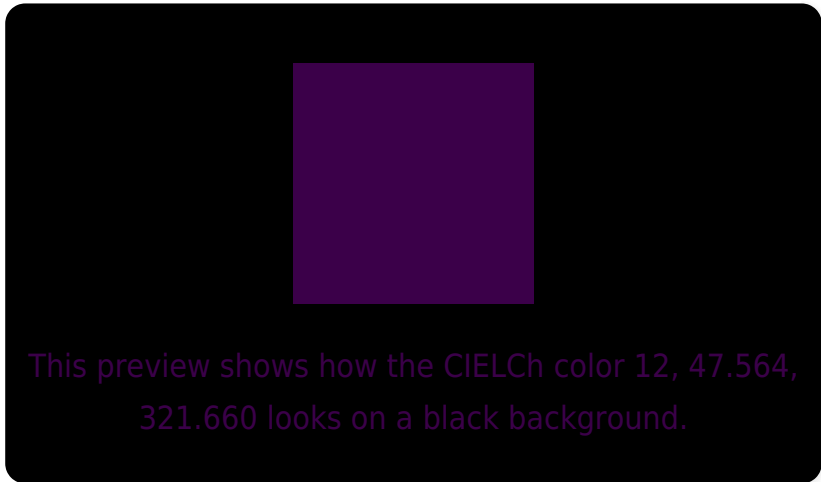
Large Text (above 18pt) WCAG AA ✓ Pass

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, 47.564, 321.660

Background



This preview shows how black text looks on a background with the CIELCh color 12, 47.564, 321.660.



This preview shows how white text looks on a background with the CIELCh color 12, 47.564, 321.660.

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, 47.564, 321.660

Protanopia

14, 27.544, 280.941

Deuteranopia

14, 20.715, 268.341



Tritanopia
14, 12.621, 16.766

Trichromacy



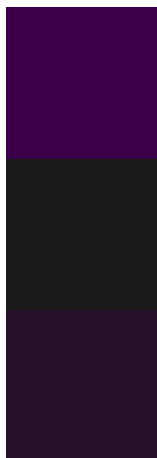
Original Color
12, 47.564, 321.660

Protanomaly
11, 36.844, 299.818

Deuteranomaly
11, 31.245, 297.443

Tritanomaly
12, 24.695, 336.249

Monochromacy



Original Color
12, 47.564, 321.660

Achromatopsia
9, 0.003, 296.813

Achromatomaly
9, 20.985, 321.116

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 47.564, 321.660 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(59, 0, 73)` looks like.

```
.text, #text, p{  
    color:rgb(59, 0, 73)  
}
```

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(59, 0, 73) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 0, 73) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 47.564, 321.660 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(59, 0, 73) }
```

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

```
.border{ border-color:rgb(59, 0, 73) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 0, 73)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 0, 73); -webkit-box-shadow:4px  
4px 4px 4px rgb(59, 0, 73); box-shadow:4px  
4px 4px 4px rgb(59, 0, 73) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 47.564, 321.660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 0, 73) }
```

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

```
.background{ background-color: rgb(59, 0,  
73) }
```

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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