

Converting Colors

CIELCh(12, 63.434, 311.039)

Have a look what the booklet for
CIELCh(12, 63.434, 311.039)
contains.

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Color

CIELCh(12, 63.433, 310.876)

Conversions

Conversions Part 1

Format	Color
Hex	2A0064
RGB	42, 0, 100
RGB Percent	16%, 0%, 39%
CMY	0.8357, 1.0000, 0.6082
CMYK	0.58, 1.00, 0.00, 0.61
HSL	265°, 100%, 20%
HSV	265°, 100%, 39%
XYZ	3.2449, 1.4064, 12.1319
YIQ	23.9580, -7.0680, 40.0040

Conversions

Conversions Part 2

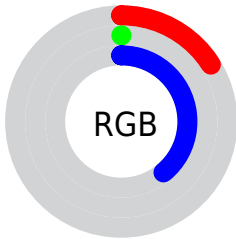
Format	Color
R_{YB}	42, 0, 100
Decimal	2752612
CIE _{Lab}	12.00, 41.51, -47.96
CIE _{LCh}	12, 63.433, 310.876
Yxy	1.4064, 0.1933, 0.0838
Android (android.graphics.Color)	4280942692 (0xFF2A0064)
YUV	23.9580, 37.4887, 15.8228
Hunter-Lab	11.8591, 28.0875, -52.3526




Details

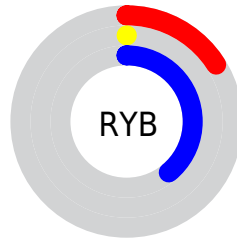
The CIELCh color **12, 63.433, 310.876** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **38, 53.001, 124.165**, and the grayscale version is **8, 0.002, 296.813**.



A 20% lighter version of the original color is **32, 63.255, 310.762**, and **2, 34.482, 297.155** is the 20% darker color. If you saturate the color by 10%, you get **12, 63.397, 310.864**, and if you desaturate by 10%, it is **14, 58.484, 310.633**.

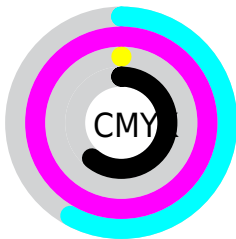
Distribution







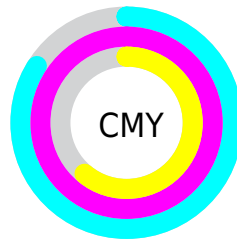
-  Red (16%)
-  Green (0%)
-  Blue (39%)






-  Red (16%)
-  Yellow (0%)
-  Blue (39%)



-  Cyan (58%)
-  Magenta (100%)
-  Yellow (0%)
-  Black (61%)



-  Cyan (84%)
-  Magenta (100%)
-  Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 63.433, 310.876 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, 63.433, 310.876 by changing the saturation by 10% instead.

■ 12, 63.433,
310.876

■ 12, 63.433,
310.876

■ 100, 63.433,
310.876

■ 2, 63.433, 310.876

■ 32, 63.433,
310.876

■ 0, 63.433, 310.876

■ 42, 63.433,
310.876


■ 52, 63.433,
310.876


■ 62, 63.433,
310.876


■ 72, 63.433,
310.876


■ 82, 63.433,


310.876


 92, 63.433,
310.876


 12, 63.433,
310.876


 12, 63.433,
310.876


 12, 63.397,
310.864

 14, 58.484,
310.633

 16, 53.359,
310.479

 19, 47.229,
310.079

 22, 40.534,
309.537

 25, 33.594,
308.933

■ 29, 26.615,
308.318

■ 32, 19.716,
307.723

■ 35, 12.963,
307.166

■ 39, 6.389, 306.652

Harmonies

Complementary

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



12, 63.433, 310.876



38, 53.001, 124.165

Rectangle

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



12, 63.433, 310.876



12, 63.433, 0.876



12, 63.433, 130.876



12, 63.433, 180.876

Sweetspot

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



12, 63.397, 310.864



42, 24.517, 307.774



24, 29.222, 271.383



19, 16.923, 307.950



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



12, 63.397, 310.864



18, 76.755, 310.542



21, 58.395, 325.169



19, 3.643, 306.600



15, 70.056, 310.685



36, 122.348, 310.037

Inverse Universe

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



20, 44.034, 352.519



27, 52.862, 353.522



36, 59.654, 135.306



20, 3.148, 340.142



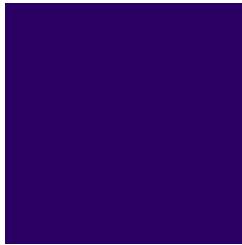
24, 48.430, 353.070



53, 83.157, 355.214

Previews

White Background



This preview shows how the CIELCh color 12, 63.433, 310.876 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, 63.433, 310.876 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

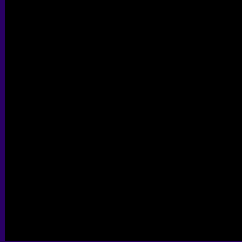
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 63.433, 310.876

Background



This preview shows how black text looks on a background with the CIELCh color 12, 63.433, 310.876.



This preview shows how white text looks on a background with the CIELCh color 12, 63.433, 310.876.

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, 63.433, 310.876

Protanopia

14, 27.544, 280.941

Deuteranopia

14, 19.579, 265.457



Tritanopia
14, 8.694, 211.963

Trichromacy



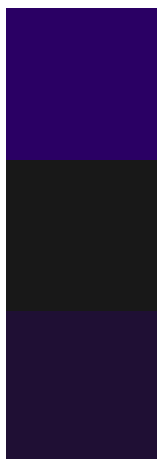
Original Color
12, 63.433, 310.876

Protanomaly
11, 43.548, 299.596

Deuteranomaly
11, 37.464, 297.171

Tritanomaly
11, 27.608, 299.275

Monochromacy



Original Color
12, 63.433, 310.876

Achromatopsia
8, 0.002, 296.813

Achromatomaly
8, 27.922, 310.131

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 63.433, 310.876 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(42, 0, 100)` looks like.

```
.text, #text, p{  
    color:rgb(42, 0, 100)  
}
```

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(42, 0, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 0, 100) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 63.433, 310.876 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(42, 0, 100) }
```

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

```
.border{ border-color:rgb(42, 0, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 0, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 0, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 0, 100);  
box-shadow:4px 4px 4px 4px rgb(42, 0, 100)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 12, 63.433, 310.876 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 0, 100) }
```

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

```
.background{ background-color: rgb(42, 0,  
100) }
```

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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