

Converting Colors

CIELCh(0, 31.000, 319.938)

Have a look what the booklet for
CIELCh(0, 31.000, 319.938) contains.

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Color

CIELCh(3, 23.034, 318.817)

Conversions

Conversions Part 1

Format	Color
Hex	1C0021
RGB	28, 0, 33
RGB Percent	11%, 0%, 13%
CMY	0.8916, 1.0000, 0.8688
CMYK	0.17, 1.00, 0.00, 0.87
HSL	290°, 100%, 7%
HSV	290°, 100%, 13%
XYZ	0.7389, 0.3321, 1.4982
YIQ	12.1340, 6.0950, 16.1990

Conversions

Conversions Part 2

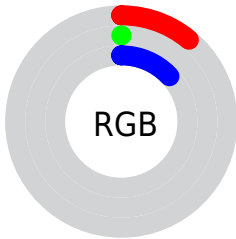
Format	Color
RYB	28, 0, 33
Decimal	1835041
CIELab	3.00, 17.34, -15.17
CIElCh	3, 23.034, 318.817
Yxy	0.3321, 0.2876, 0.1293
Android (android.graphics.Color)	4280025121 (0xFF1C0021)
YUV	12.1340, 10.2869, 13.9145
Hunter-Lab	5.7630, 12.8000, -11.3798

Details

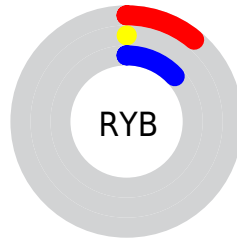
The CIELCh color **3, 23.034, 318.817** is a dark color, and the websafe version is hex **000033**. A complement of this color would be **10, 23.451, 140.648**, and the grayscale version is **3, 0.001, 296.812**.

A 20% lighter version of the original color is **23, 22.047, 319.327**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **3, 22.529, 318.719**, and if you desaturate by 10%, it is **4, 21.032, 319.205**.

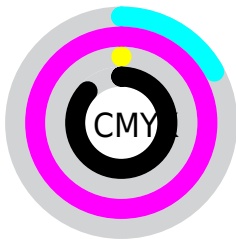
Distribution



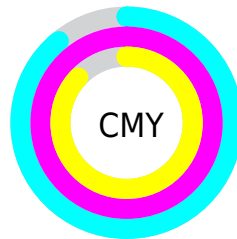
- Red (11%)
- Green (0%)
- Blue (13%)



- Red (11%)
- Yellow (0%)
- Blue (13%)



- Cyan (17%)
- Magenta (100%)
- Yellow (0%)
- Black (87%)



- Cyan (89%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 3, 23.034, 318.817 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 3, 23.034, 318.817 by changing the saturation by 10% instead.

■ 3, 23.034, 318.817

■ 3, 23.034, 318.817

■ 93, 23.034,
318.817

■ 0, 23.034, 318.817

■ 23, 23.034,
318.817

■ 33, 23.034,
318.817

■ 43, 23.034,
318.817

■ 53, 23.034,
318.817

■ 63, 23.034,
318.817

■ 73, 23.034,
318.817

83, 23.034,
318.817

3, 23.034, 318.817

3, 23.034, 318.817

3, 22.529, 318.719

4, 21.032, 319.205

5, 19.537, 319.781

5, 18.000, 320.347

6, 16.229, 320.812

7, 14.021, 321.063

8, 11.347, 320.926

9, 8.493, 320.588

11, 5.637, 320.241

Harmonies

Complementary

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



3, 23.034, 318.817



10, 23.451, 140.648

Rectangle

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



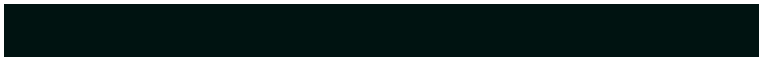
3, 23.034, 318.817



3, 23.034, 8.817



3, 23.034, 138.817



3, 23.034, 188.817

Sweetspot

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



3, 22.529, 318.719



13, 10.601, 320.662



2, 17.205, 285.778



5, 5.927, 318.808



62, 0.008, 296.813



8, 0.002, 296.812

Same Dimension

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



3, 22.529, 318.719



5, 31.728, 321.693



4, 18.275, 341.273



5, 1.186, 319.373



14, 51.201, 322.131



43, 101.055, 321.564

Inverse Universe

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



3, 14.448, 10.035



5, 22.021, 12.003



10, 21.002, 150.462



5, 0.729, 5.573



14, 39.169, 24.941



44, 81.755, 31.787

Previews

White Background



This preview shows how the CIELCh color 3, 23.034, 318.817 looks on a white background.

Color Contrast Check

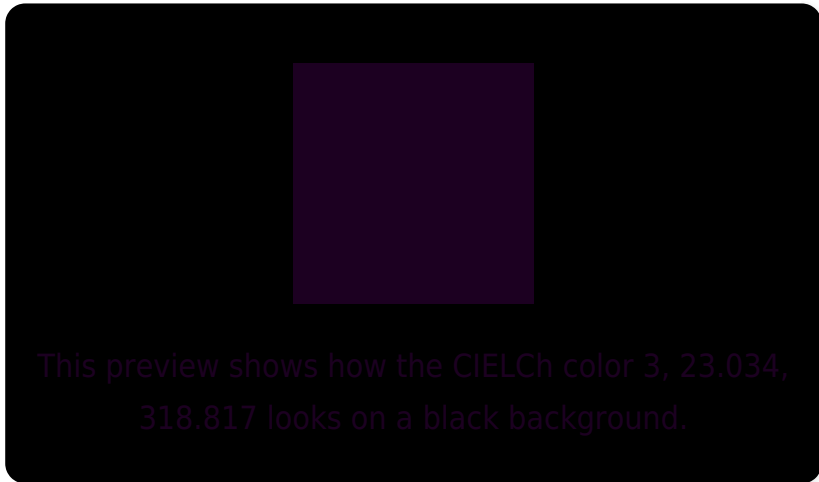
Large Text (above 18pt) WCAG AA ✓ Pass

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

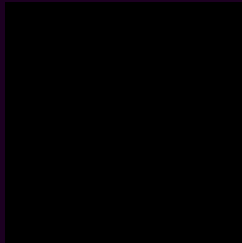
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 3, 23.034, 318.817

Background



This preview shows how black text looks on a background with the CIELCh color 3, 23.034, 318.817.



This preview shows how white text looks on a background with the CIELCh color 3, 23.034, 318.817.

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

3, 22.299, 319.574

Protanopia

4, 13.658, 272.067

Deuteranopia

4, 10.532, 262.099



Tritanopia
5, 5.233, 14.051

Trichromacy



Original Color

3, 22.299, 319.574

Protanomaly

4, 15.976, 291.828

Deuteranomaly

4, 13.193, 289.843

Tritanomaly

4, 9.940, 336.735

Monochromacy



Original Color

3, 22.299, 319.574

Achromatopsia

3, 0.001, 296.812

Achromatomaly

3, 6.951, 318.590

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 3, 23.034, 318.817 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, 33)` looks like.

```
.text, #text, p{  
    color:rgb(28, 0, 33)  
}
```

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, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(28, 0, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 3, 23.034, 318.817 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, 33) }
```

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

```
.border{ border-color:rgb(28, 0, 33) }
```

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, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(28, 0, 33); -webkit-box-shadow:4px  
4px 4px 4px rgb(28, 0, 33); box-shadow:4px  
4px 4px 4px rgb(28, 0, 33) }
```

Background

The CSS property to change the background color of an element to CIELCh 3, 23.034, 318.817 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, 33) }
```

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

```
.background{ background-color: rgb(28, 0,  
33) }
```

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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