

Converting Colors

CIELCh(3, 34.832, 306.429)

Have a look what the booklet for
CIELCh(3, 34.832, 306.429) contains.

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Color

CIELCh(3, 33.920, 305.773)

Conversions

Conversions Part 1

Format	Color
Hex	120031
RGB	18, 0, 49
RGB Percent	7%, 0%, 19%
CMY	0.9303, 1.0000, 0.8060
CMYK	0.64, 1.00, 0.00, 0.81
HSL	262°, 100%, 10%
HSV	262°, 100%, 19%
XYZ	0.7997, 0.3321, 2.9811
YIQ	10.9680, -5.0010, 19.0550

Conversions

Conversions Part 2

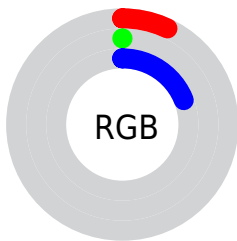
Format	Color
RYB	18, 0, 49
Decimal	1179697
CIELab	3.00, 19.83, -27.52
CIElCh	3, 33.920, 305.773
Yxy	0.3321, 0.1944, 0.0808
Android (android.graphics.Color)	4279369777 (0xFF120031)
YUV	10.9680, 18.7498, 6.1671
Hunter-Lab	5.7630, 14.6851, -26.6356

Details

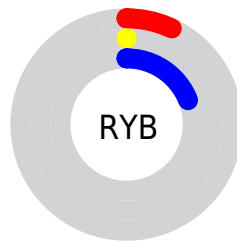
The CIELCh color **3, 33.920, 305.773** is a dark color, and the websafe version is hex **000033**. A complement of this color would be **18, 30.122, 122.253**, and the grayscale version is **3, 0.001, 296.812**.

A 20% lighter version of the original color is **23, 32.990, 305.550**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **3, 33.467, 305.549**, and if you desaturate by 10%, it is **4, 31.362, 306.555**.

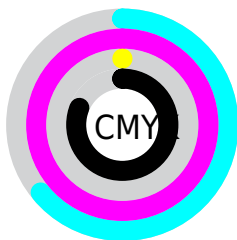
Distribution



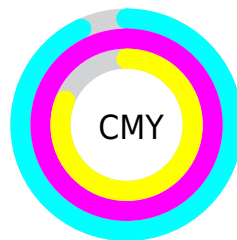
- Red (7%)
- Green (0%)
- Blue (19%)



- Red (7%)
- Yellow (0%)
- Blue (19%)



- Cyan (64%)
- Magenta (100%)
- Yellow (0%)
- Black (81%)



- Cyan (93%)
- Magenta (100%)
- Yellow (81%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 3, 33.920, 305.773 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, 33.920, 305.773 by changing the saturation by 10% instead.


 3, 33.920, 305.773


 3, 33.920, 305.773


 93, 33.920,
305.773


 0, 33.920, 305.773


 23, 33.920,
305.773

 33, 33.920,
305.773

 43, 33.920,
305.773

 53, 33.920,
305.773

 63, 33.920,
305.773

 73, 33.920,
305.773

■ 83, 33.920,
305.773

■ 3, 33.920, 305.773

■ 3, 33.920, 305.773

■ 3, 33.467, 305.549

■ 4, 31.362, 306.555

■ 6, 29.074, 307.426

■ 7, 26.210, 307.839

■ 9, 22.424, 307.332

■ 11, 18.512,
306.686

■ 13, 14.638,
306.064

■ 15, 10.838,
305.479

■ 17, 7.128, 304.938

■ 19, 3.515, 304.443

Harmonies

Complementary

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



3, 33.920, 305.773



18, 30.122, 122.253

Rectangle

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



3, 33.920, 305.773



3, 33.920, 355.773



3, 33.920, 125.773



3, 33.920, 175.773

Sweetspot

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



3, 33.467, 305.549



20, 13.436, 305.567



11, 15.271, 254.875



8, 9.273, 305.603



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



3, 33.467, 305.549



5, 44.849, 309.148



6, 36.282, 323.193



8, 1.986, 304.340



9, 59.196, 309.942



31, 113.780, 309.074

Inverse Universe

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



7, 28.828, 345.023



11, 33.848, 346.141



17, 34.561, 136.543



8, 1.812, 337.226



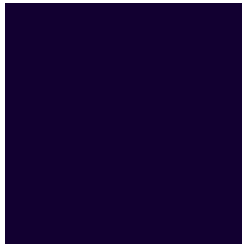
18, 42.034, 347.467



48, 78.702, 349.787

Previews

White Background



This preview shows how the CIELCh color 3, 33.920, 305.773 looks on a white background.

Color Contrast Check

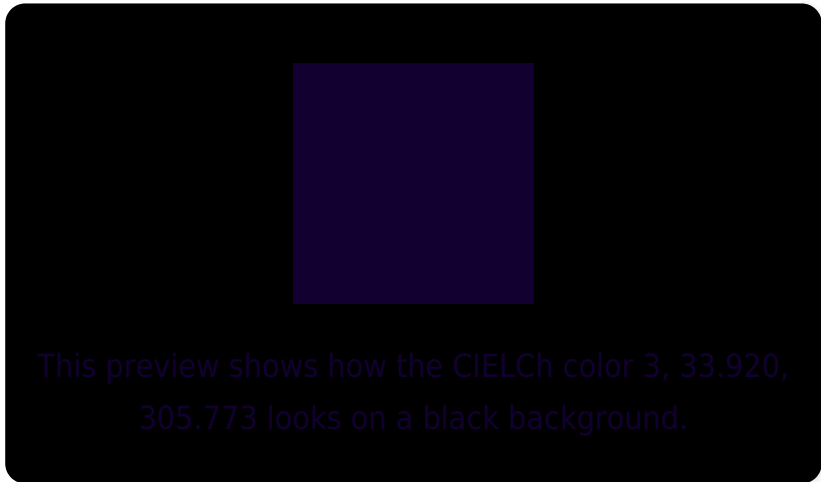
Large Text (above 18pt) WCAG AA ✓ Pass

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

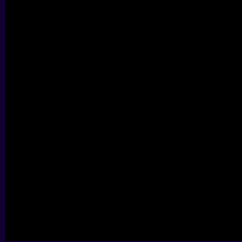
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 3, 33.920, 305.773

Background



This preview shows how black text looks on a background with the CIELCh color 3, 33.920, 305.773.



This preview shows how white text looks on a background with the CIELCh color 3, 33.920, 305.773.

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, 33.098, 305.643

Protanopia

4, 13.658, 272.067

Deuteranopia

5, 9.584, 255.793



Tritanopia
5, 5.975, 205.591

Trichromacy



Original Color

3, 33.098, 305.643

Protanomaly

4, 20.636, 290.680

Deuteranomaly

4, 17.106, 287.829

Tritanomaly

4, 12.817, 283.520

Monochromacy



Original Color

3, 33.098, 305.643

Achromatopsia

3, 0.001, 296.812

Achromatomaly

3, 10.265, 299.912

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 3, 33.920, 305.773 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(18, 0, 49)` looks like.

```
.text, #text, p{  
    color:rgb(18, 0, 49)  
}
```

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(18, 0, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 0, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 3, 33.920, 305.773 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(18, 0, 49) }
```

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

```
.border{ border-color:rgb(18, 0, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 0, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 0, 49); -webkit-box-shadow:4px  
4px 4px 4px rgb(18, 0, 49); box-shadow:4px  
4px 4px 4px rgb(18, 0, 49) }
```

Background

The CSS property to change the background color of an element to CIELCh 3, 33.920, 305.773 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 0, 49) }
```

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

```
.background{ background-color: rgb(18, 0,  
49) }
```

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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