

Converting Colors

CIELCh(19, 16.933, 237.246)

Have a look what the booklet for
CIELCh(19, 16.933, 237.246)
contains.

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Color

CIELCh(19, 16.670, 235.930)

Conversions

Conversions Part 1

Format	Color
Hex	003342
RGB	0, 51, 66
RGB Percent	0%, 20%, 26%
CMY	1.0000, 0.8005, 0.7417
CMYK	1.00, 0.23, 0.00, 0.74
HSL	194°, 100%, 13%
HSV	194°, 100%, 26%
XYZ	2.1553, 2.7468, 5.5496
YIQ	37.4610, -35.2110, -6.1470

Conversions

Conversions Part 2

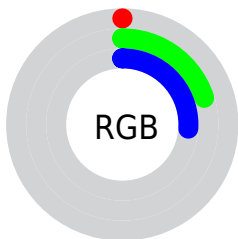
Format	Color
RYB	0, 29, 66
Decimal	13122
CIELab	19.00, -9.34, -13.81
CIELCh	19, 16.670, 235.930
Yxy	2.7468, 0.2062, 0.2628
Android (android.graphics.Color)	4278203202 (0xFF003342)
YUV	37.4610, 14.0697, -32.8533
Hunter-Lab	16.5735, -5.7904, -8.2518

Details

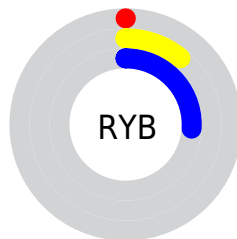
The CIELCh color **19, 16.670, 235.930** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **13, 30.597, 39.280**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **39, 16.625, 237.247**, and **1, 11.732, 288.824** is the 20% darker color. If you saturate the color by 10%, you get **19, 16.649, 235.988**, and if you desaturate by 10%, it is **20, 15.692, 233.781**.

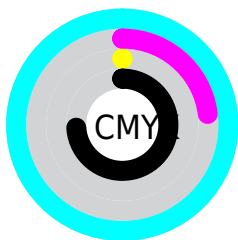
Distribution



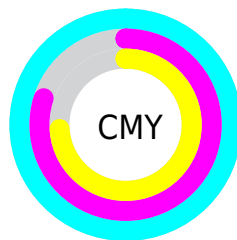
- Red (0%)
- Green (20%)
- Blue (26%)



- Red (0%)
- Yellow (11%)
- Blue (26%)



- Cyan (100%)
- Magenta (23%)
- Yellow (0%)
- Black (74%)



- Cyan (100%)
- Magenta (80%)
- Yellow (74%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 16.670, 235.930 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 19, 16.670, 235.930 by changing the saturation by 10% instead.

■ 19, 16.670,
235.930

■ 19, 16.670,
235.930

■ 100, 16.670,
235.930

■ 9, 16.670, 235.930

■ 39, 16.670,
235.930

■ 0, 16.670, 235.930

■ 49, 16.670,
235.930


■ 59, 16.670,
235.930


■ 69, 16.670,
235.930


■ 79, 16.670,
235.930


■ 89, 16.670,


235.930


 99, 16.670,
235.930


 19, 16.670,
235.930


 19, 16.670,
235.930


 19, 16.649,
235.988

 20, 15.692,
233.781

 20, 14.769,
231.323

 21, 13.645,
229.215

 22, 12.277,
227.514

 23, 10.675,
226.158

■ 24, 8.861, 225.090

■ 25, 6.860, 224.262

■ 26, 4.698, 223.633

■ 27, 2.404, 223.193

Harmonies

Complementary

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



19, 16.670, 235.930



13, 30.597, 39.280

Rectangle

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



19, 16.670, 235.930



19, 16.670, 285.930



19, 16.670, 55.930



19, 16.670, 105.930

Sweetspot

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



19, 16.649, 235.988



33, 8.587, 224.359



23, 40.001, 141.304



15, 5.737, 224.487



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



19, 16.649, 235.988



26, 20.144, 237.921



8, 35.183, 294.748



12, 1.349, 223.149



29, 21.805, 238.600



66, 40.740, 242.155

Inverse Universe

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



12, 37.411, 338.274



18, 44.737, 338.823



21, 29.776, 82.853



12, 2.500, 331.951



20, 48.215, 339.019



51, 87.867, 340.074

Previews

White Background



This preview shows how the CIELCh color 19, 16.670, 235.930 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 CIE LCh color 19, 16.670, 235.930 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

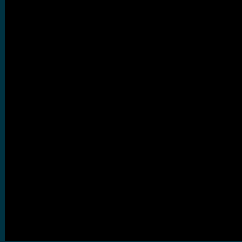
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

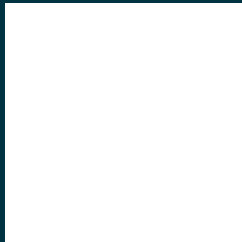
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 19, 16.670, 235.930

Background



This preview shows how black text looks on a background with the CIELCh color 19, 16.670, 235.930.



This preview shows how white text looks on a background with the CIELCh color 19, 16.670, 235.930.

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

19, 16.670, 235.930

Protanopia

19, 11.029, 284.306

Deuteranopia

19, 14.522, 282.951



Tritanopia
19, 15.767, 206.760

Trichromacy



Original Color
19, 16.670, 235.930

Protanomaly
19, 12.485, 254.701

Deuteranomaly
19, 14.842, 260.863

Tritanomaly
19, 15.725, 217.515

Monochromacy



Original Color
19, 16.670, 235.930

Achromatopsia
15, 0.003, 296.813

Achromatomaly
16, 8.020, 224.207

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 16.670, 235.930 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(0, 51, 66)` looks like.

```
.text, #text, p{  
    color:rgb(0, 51, 66)  
}
```

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(0, 51, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 51, 66) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 16.670, 235.930 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(0, 51, 66) }
```

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

```
.border{ border-color:rgb(0, 51, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 51, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 51, 66); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 51, 66); box-shadow:4px  
4px 4px 4px rgb(0, 51, 66) }
```

Background

The CSS property to change the background color of an element to CIELCh 19, 16.670, 235.930 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 51, 66) }
```

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

```
.background{ background-color: rgb(0, 51,  
66) }
```

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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