

Converting Colors

CIELCh(16, 21.455, 197.399)

Have a look what the booklet for
CIELCh(16, 21.455, 197.399)
contains.

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Color

CIELCh(17, 15.120, 199.122)

Conversions

Conversions Part 1

Format	Color
Hex	013031
RGB	1, 48, 49
RGB Percent	0%, 19%, 19%
CMY	0.9977, 0.8134, 0.8095
CMYK	0.99, 0.02, 0.00, 0.81
HSL	181°, 98%, 10%
HSV	181°, 99%, 19%
XYZ	1.5930, 2.3023, 3.2202
YIQ	34.0610, -28.3330, -9.6530

Conversions

Conversions Part 2

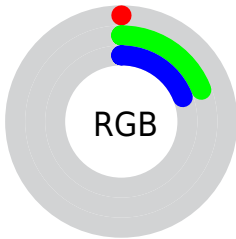
Format	Color
R_{YB}	1, 25, 49
Decimal	77873
CIE _{Lab}	17.00, -14.29, -4.95
CIE _{LCh}	17, 15.120, 199.122
Yxy	2.3023, 0.2239, 0.3236
Android (android.graphics.Color)	4278267953 (0xFF013031)
YUV	34.0610, 7.3649, -28.9945
Hunter-Lab	15.1734, -7.8139, -1.9614

Details

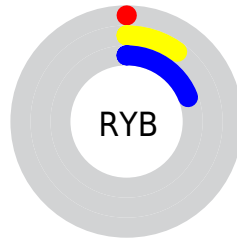
The CIELCh color **17, 15.120, 199.122** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **6, 25.020, 22.081**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **37, 14.939, 199.916**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **17, 15.235, 199.112**, and if you desaturate by 10%, it is **17, 14.167, 199.187**.

Distribution



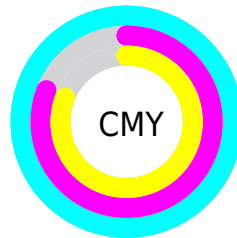
- Red (0%)
- Green (19%)
- Blue (19%)



- Red (0%)
- Yellow (10%)
- Blue (19%)



- Cyan (99%)
- Magenta (2%)
- Yellow (0%)
- Black (81%)





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


Brightness & Saturation Gradients

These gradients show how the CIELCh color 17, 15.120, 199.122 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 17, 15.120, 199.122 by changing the saturation by 10% instead.

 17, 15.120,
199.122


 17, 15.120,
199.122


 100, 15.120,
199.122


 7, 15.120, 199.122


 37, 15.120,
199.122

 0, 15.120, 199.122

 47, 15.120,
199.122


 57, 15.120,
199.122


 67, 15.120,
199.122


 77, 15.120,
199.122


 87, 15.120,


199.122


 97, 15.120,
199.122


 17, 15.120,
199.122


 17, 15.120,
199.122

 17, 15.235,
199.112

 17, 14.167,
199.187

 17, 13.249,
199.226

 18, 12.216,
199.290

 18, 10.958,
199.418

 18, 9.487, 199.608

■ 18, 7.825, 199.853

■ 19, 5.995, 200.150

■ 19, 4.020, 200.499

■ 20, 1.926, 200.924

Harmonies

Complementary

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



17, 15.120, 199.122



6, 25.020, 22.081

Rectangle

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



17, 15.120, 199.122



17, 15.120, 249.122



17, 15.120, 19.122



17, 15.120, 69.122

Sweetspot

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



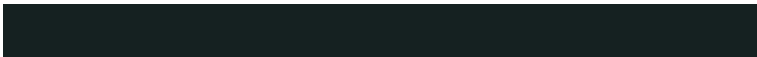
17, 15.120, 199.121



25, 7.775, 200.060



16, 34.725, 139.698



12, 5.347, 200.032



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



17, 15.120, 199.121



23, 18.098, 199.269



8, 19.317, 276.238



9, 1.258, 200.950



33, 22.676, 199.431



77, 43.046, 199.704

Inverse Universe

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



8, 35.130, 328.890



12, 42.215, 328.970



12, 19.564, 62.363



8, 2.302, 325.346



19, 52.925, 329.011



51, 100.564, 329.080

Previews

White Background



This preview shows how the CIELCh color 17, 15.120, 199.122 looks on a white background.

Color Contrast Check

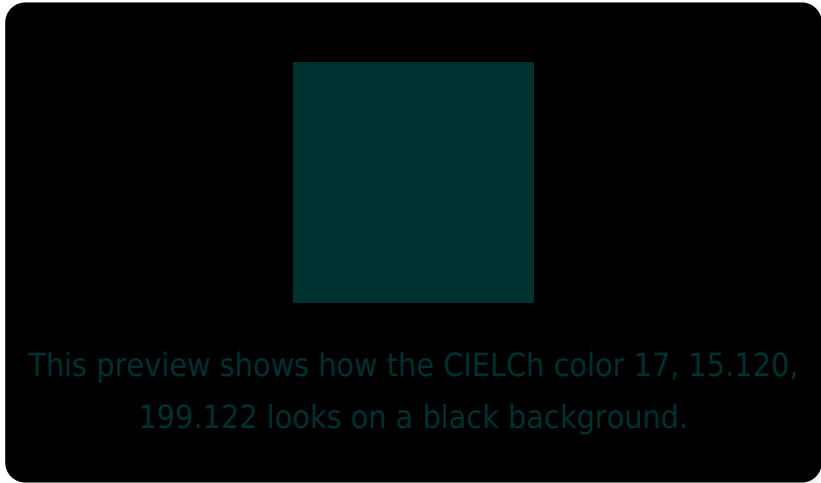
Large Text (above 18pt) WCAG AA ✓ Pass

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

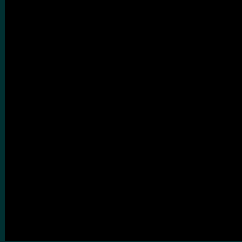
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

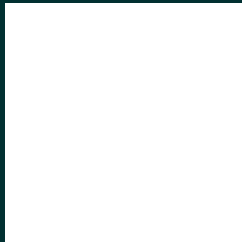
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 17, 15.120, 199.122

Background



This preview shows how black text looks on a background with the CIELCh color 17, 15.120, 199.122.



This preview shows how white text looks on a background with the CIELCh color 17, 15.120, 199.122.

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


17, 15.115, 199.151

Protanopia

17, 2.087, 290.728

Deuteranopia

17, 5.582, 296.212



Tritanopia
17, 13.240, 209.204

Trichromacy



Original Color
17, 15.115, 199.151

Protanomaly
17, 7.293, 209.078

Deuteranomaly
17, 7.378, 226.590

Tritanomaly
17, 13.865, 205.527

Monochromacy



Original Color
17, 15.115, 199.151

Achromatopsia
13, 0.003, 296.813

Achromatomaly
14, 7.389, 197.747

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 17, 15.120, 199.122 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(1, 48, 49)` looks like.

```
.text, #text, p{  
    color:rgb(1, 48, 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(1, 48, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 48, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 17, 15.120, 199.122 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(1, 48, 49) }
```

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

```
.border{ border-color:rgb(1, 48, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 48, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 48, 49); -webkit-box-shadow:4px  
4px 4px 4px rgb(1, 48, 49); box-shadow:4px  
4px 4px 4px rgb(1, 48, 49) }
```

Background

The CSS property to change the background color of an element to CIELCh 17, 15.120, 199.122 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 48, 49) }
```

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

```
.background{ background-color: rgb(1, 48,  
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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