

Converting Colors

CIELCh(18, 19.581, 172.429)

Have a look what the booklet for
CIELCh(18, 19.581, 172.429)
contains.

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Color

CIELCh(18, 19.512, 172.707)

Conversions

Conversions Part 1

Format	Color
Hex	003328
RGB	0, 51, 40
RGB Percent	0%, 20%, 16%
CMY	1.0000, 0.8001, 0.8432
CMYK	1.00, 0.00, 0.22, 0.80
HSL	167°, 100%, 10%
HSV	167°, 100%, 20%
XYZ	1.5648, 2.5180, 2.4087
YIQ	34.4970, -26.8650, -14.2330

Conversions

Conversions Part 2

Format	Color
RYB	0, 29, 51
Decimal	13096
CIELab	18.00, -19.35, 2.48
CIELCh	18, 19.512, 172.707
Yxy	2.5180, 0.2411, 0.3879
Android (android.graphics.Color)	4278203176 (0xFF003328)
YUV	34.4970, 2.7130, -30.2539
Hunter-Lab	15.8683, -10.1672, 2.1082

Details

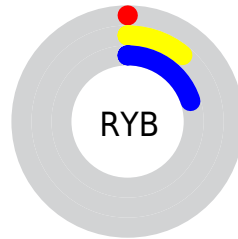
The CIELCh color **18, 19.512, 172.707** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **7, 26.641, 12.716**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 19.448, 172.610**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **18, 19.507, 172.701**, and if you desaturate by 10%, it is **18, 18.038, 173.626**.

Distribution



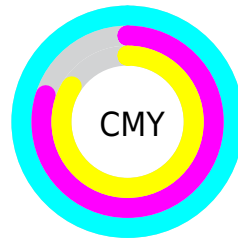
- Red (0%)
- Green (20%)
- Blue (16%)



- Red (0%)
- Yellow (11%)
- Blue (20%)



- Cyan (100%)
- Magenta (0%)
- Yellow (22%)
- Black (80%)





- Cyan (100%)
- Magenta (80%)
- Yellow (84%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 19.512, 172.707 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 18, 19.512, 172.707 by changing the saturation by 10% instead.

 18, 19.512,
172.707


 18, 19.512,
172.707


 100, 19.512,
172.707


 8, 19.512, 172.707


 38, 19.512,
172.707

 0, 19.512, 172.707

 48, 19.512,
172.707


 58, 19.512,
172.707


 68, 19.512,
172.707


 78, 19.512,
172.707


 88, 19.512,


172.707


 98, 19.512,
172.707


 18, 19.512,
172.707


 18, 19.512,
172.707


 18, 19.507,
172.701

 18, 18.038,
173.626

 18, 16.628,
174.736

 19, 15.126,
175.889

 19, 13.408,
176.952

 19, 11.496,
177.938

■ 19, 9.417, 178.860

■ 20, 7.199, 179.731

■ 20, 4.872, 180.563

■ 21, 2.463, 181.383

Harmonies

Complementary

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



18, 19.512, 172.707



7, 26.641, 12.716

Rectangle

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



18, 19.512, 172.707



18, 19.512, 222.707



18, 19.512, 352.707



18, 19.512, 42.707

Sweetspot

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



18, 19.507, 172.701



26, 8.951, 179.597



18, 34.931, 135.081



12, 5.967, 179.538



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



18, 19.507, 172.701



24, 23.389, 171.702



13, 14.518, 243.962



9, 1.363, 181.535



33, 28.927, 170.781



78, 56.277, 169.057

Inverse Universe

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



7, 26.641, 12.716



11, 32.865, 18.765



9, 22.478, 39.269



8, 1.400, 2.601



16, 41.339, 23.562



46, 81.800, 28.882

Previews

White Background



This preview shows how the CIELCh color 18, 19.512, 172.707 looks on a white background.

Color Contrast Check

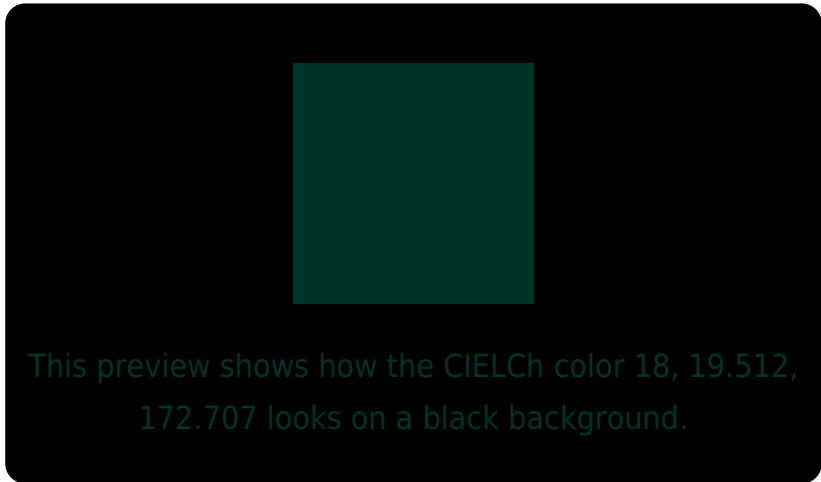
Large Text (above 18pt) WCAG AA ✓ Pass

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

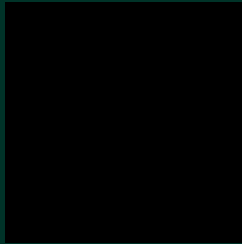
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 19.512, 172.707

Background



This preview shows how black text looks on a background with the CIELCh color 18, 19.512, 172.707.



This preview shows how white text looks on a background with the CIELCh color 18, 19.512, 172.707.

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
18, 19.512, 172.707

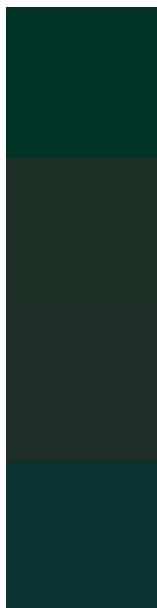
Protanopia
18, 5.564, 98.391

Deuteranopia
18, 3.500, 31.355



Tritanopia
18, 12.127, 210.501

Trichromacy



Original Color
18, 19.512, 172.707

Protanomaly
18, 10.105, 159.399

Deuteranomaly
18, 7.353, 169.736

Tritanomaly
18, 14.354, 191.057

Monochromacy



Original Color
18, 19.512, 172.707

Achromatopsia
13, 0.003, 296.813

Achromatomaly
14, 8.616, 178.132

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 19.512, 172.707 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, 40)` looks like.

```
.text, #text, p{  
    color:rgb(0, 51, 40)  
}
```

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, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 51, 40) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 19.512, 172.707 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, 40) }
```

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

```
.border{ border-color:rgb(0, 51, 40) }
```

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, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 51, 40); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 51, 40); box-shadow:4px  
4px 4px 4px rgb(0, 51, 40) }
```

Background

The CSS property to change the background color of an element to CIELCh 18, 19.512, 172.707 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, 40) }
```

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

```
.background{ background-color: rgb(0, 51,  
40) }
```

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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