

Converting Colors

CIELCh(19, 12.851, 189.882)

Have a look what the booklet for
CIELCh(19, 12.851, 189.882)
contains.

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Color

CIELCh(19, 12.803, 190.733)

Conversions

Conversions Part 1

Format	Color
Hex	123331
RGB	18, 51, 49
RGB Percent	7%, 20%, 19%
CMY	0.9283, 0.7989, 0.8068
CMYK	0.64, 0.00, 0.04, 0.80
HSL	176°, 47%, 14%
HSV	176°, 64%, 20%
XYZ	2.0106, 2.7468, 3.3595
YIQ	40.9050, -19.0260, -7.6180

Conversions

Conversions Part 2

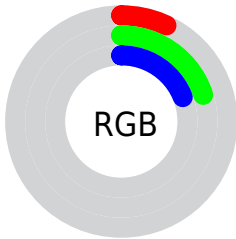
Format	Color
R_{YB}	18, 35, 51
Decimal	1192753
CIE _{Lab}	19.00, -12.58, -2.38
CIE _{LCh}	19, 12.803, 190.733
Yxy	2.7468, 0.2477, 0.3384
Android (android.graphics.Color)	4279382833 (0xFF123331)
YUV	40.9050, 3.9908, -20.0877
Hunter-Lab	16.5735, -7.3487, -0.4169

Details

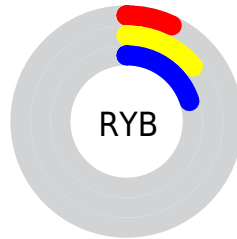
The CIELCh color **19, 12.803, 190.733** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **11, 18.115, 21.274**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **39, 12.858, 189.527**, and **0, 0.403, 290.178** is the 20% darker color. If you saturate the color by 10%, you get **19, 14.099, 190.170**, and if you desaturate by 10%, it is **19, 11.277, 191.290**.

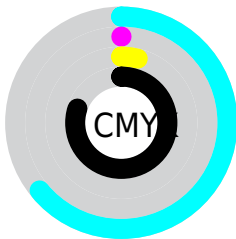
Distribution



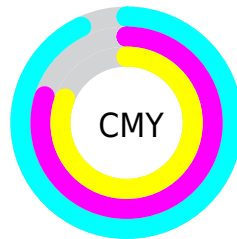
- Red (7%)
- Green (20%)
- Blue (19%)



- Red (7%)
- Yellow (14%)
- Blue (20%)



- Cyan (64%)
- Magenta (0%)
- Yellow (4%)
- Black (80%)



- Cyan (93%)
- Magenta (80%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 12.803, 190.733 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, 12.803, 190.733 by changing the saturation by 10% instead.

■ 19, 12.803,
190.733

■ 19, 12.803,
190.733

■ 100, 12.803,
190.733

■ 9, 12.803, 190.733

■ 39, 12.803,
190.733

■ 0, 12.803, 190.733

■ 49, 12.803,
190.733


■ 59, 12.803,
190.733


■ 69, 12.803,
190.733


■ 79, 12.803,
190.733


■ 89, 12.803,


190.733

 99, 12.803,
190.733

 19, 12.803,
190.733


 19, 12.803,
190.733

 19, 14.099,
190.170


 19, 11.277,
191.290

 19, 15.174,
189.606

 20, 9.541, 191.850

 18, 16.234,
189.086

 20, 7.621, 192.417

 18, 16.855,
188.814

 20, 5.543, 192.994

 21, 3.335, 193.592

 21, 1.024, 194.313

■ 22, 1.366, 14.537

■ 22, 3.812, 15.222

■ 23, 6.296, 15.830

Harmonies

Complementary

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



19, 12.803, 190.733



11, 18.115, 21.274

Rectangle

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



19, 12.803, 190.733



19, 12.803, 240.733



19, 12.803, 10.733



19, 12.803, 60.733

Sweetspot

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



19, 12.803, 190.731



27, 5.425, 193.251



18, 26.161, 138.635



12, 3.648, 193.214



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



19, 12.803, 190.731



25, 17.496, 189.795



14, 11.932, 258.024



9, 1.295, 193.991



34, 24.444, 188.089



78, 46.734, 187.407

Inverse Universe

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



11, 18.115, 21.274



13, 27.348, 25.143



15, 14.922, 61.861



8, 1.345, 14.665



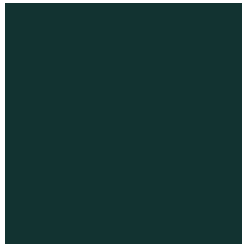
16, 43.910, 31.584



45, 90.053, 37.991

Previews

White Background



This preview shows how the CIELCh color 19, 12.803, 190.733 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 CIELCh color 19, 12.803, 190.733 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

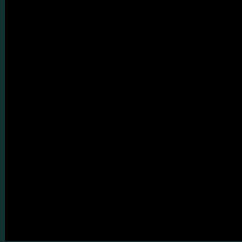
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

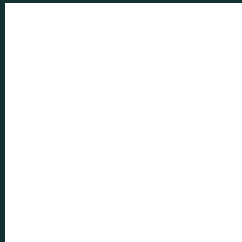
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 19, 12.803, 190.733

Background



This preview shows how black text looks on a background with the CIELCh color 19, 12.803, 190.733.



This preview shows how white text looks on a background with the CIELCh color 19, 12.803, 190.733.

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, 12.803, 190.733

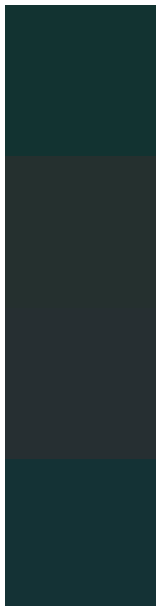
Protanopia
19, 0.473, 19.084

Deuteranopia
19, 4.530, 315.063



Tritanopia
19, 11.211, 215.484

Trichromacy



Original Color
19, 12.803, 190.733

Protanomaly
19, 5.004, 190.500

Deuteranomaly
19, 4.414, 226.699

Tritanomaly
19, 11.409, 207.832

Monochromacy



Original Color
19, 12.803, 190.733

Achromatopsia
17, 0.003, 296.813

Achromatomaly
17, 5.460, 190.938

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 12.803, 190.733 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, 51, 49)` looks like.

```
.text, #text, p{  
    color:rgb(18, 51, 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, 51, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 51, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 12.803, 190.733 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, 51, 49) }
```

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

```
.border{ border-color:rgb(18, 51, 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, 51, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 51, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 51, 49);  
box-shadow:4px 4px 4px 4px rgb(18, 51, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 12.803, 190.733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 51, 49) }
```

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

```
.background{ background-color: rgb(18, 51,  
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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