

Converting Colors

CIELCh(19, 13.330, 127.651)

Have a look what the booklet for
CIELCh(19, 13.330, 127.651)
contains.

CIELCh(19, 12.964, 127.652)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(19, 12.964, 127.652)

Conversions

Conversions Part 1

Format	Color
Hex	28311F
RGB	40, 49, 31
RGB Percent	16%, 19%, 12%
CMY	0.8431, 0.8078, 0.8784
CMYK	0.18, 0.00, 0.37, 0.81
HSL	90°, 22%, 16%
HSV	90°, 37%, 19%
XYZ	2.2208, 2.7468, 1.7096
YIQ	44.2570, 0.4140, -7.5060

Conversions

Conversions Part 2

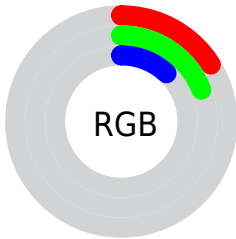
Format	Color
R_{YB}	31, 49, 40
Decimal	2634015
CIE Lab	19.00, -7.92, 10.26
CIE LCh	19, 12.964, 127.652
Yxy	2.7468, 0.3326, 0.4114
Android (android.graphics.Color)	4280824095 (0xFF28311F)
YUV	44.2570, -6.5357, -3.7334
Hunter-Lab	16.5735, -5.0849, 5.4857

Details

The CIELCh color **19, 12.964, 127.652** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **14, 13.529, 310.554**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **39, 12.939, 128.183**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **19, 16.418, 127.255**, and if you desaturate by 10%, it is **19, 9.455, 128.058**.

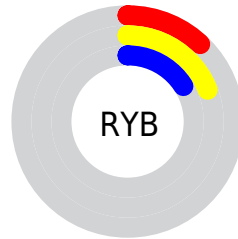
Distribution



Red (16%)

Green (19%)

Blue (12%)



Red (12%)

Yellow (19%)

Blue (16%)

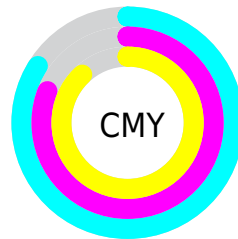


Cyan (18%)

Magenta (0%)

Yellow (37%)

Black (81%)



Cyan (84%)

Magenta (81%)

Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 12.964, 127.652 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, 12.964, 127.652 by changing the saturation by 10% instead.

■ 19, 12.964,
127.652

■ 19, 12.964,
127.652

■ 100, 12.964,
127.652

■ 9, 12.964, 127.652

■ 39, 12.964,
127.652

■ 0, 12.964, 127.652

■ 49, 12.964,
127.652

■ 59, 12.964,
127.652


■ 69, 12.964,
127.652


■ 79, 12.964,
127.652


■ 89, 12.964,

127.652


 99, 12.964,
127.652

 19, 12.964,
127.652


 19, 12.964,
127.652

 19, 16.418,
127.255


 19, 9.455, 128.058

 18, 19.776,
126.883


 20, 5.919, 128.456

 18, 22.967,
126.602

 20, 2.377, 128.846

 18, 25.699,
126.809

 21, 4.664, 309.507

 18, 28.043,
127.320

 21, 8.140, 309.818

 22, 11.579,

■ 18, 30.376,
127.745

310.102

■ 17, 31.140,
127.864

■ 22, 14.973,
310.360

■ 23, 18.320,
310.596

Harmonies

Complementary

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



19, 12.964, 127.652



14, 13.529, 310.554

Rectangle

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



19, 12.964, 127.652



19, 12.964, 177.652



19, 12.964, 307.652



19, 12.964, 357.652

Sweetspot

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



19, 12.965, 127.654



26, 4.849, 128.657



17, 7.891, 71.634



12, 3.294, 128.651



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, 12.965, 127.654



25, 19.285, 127.268



18, 15.067, 142.306



9, 2.016, 128.804



33, 50.139, 126.837



78, 96.660, 128.219

Inverse Universe

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



14, 13.529, 310.554



17, 20.379, 310.990



15, 15.063, 326.087



8, 2.039, 309.355



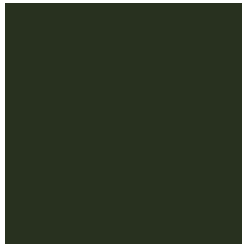
11, 57.575, 312.727



34, 110.500, 311.779

Previews

White Background



This preview shows how the CIE LCh color 19, 12.964, 127.652 looks on a white background.

Color Contrast Check

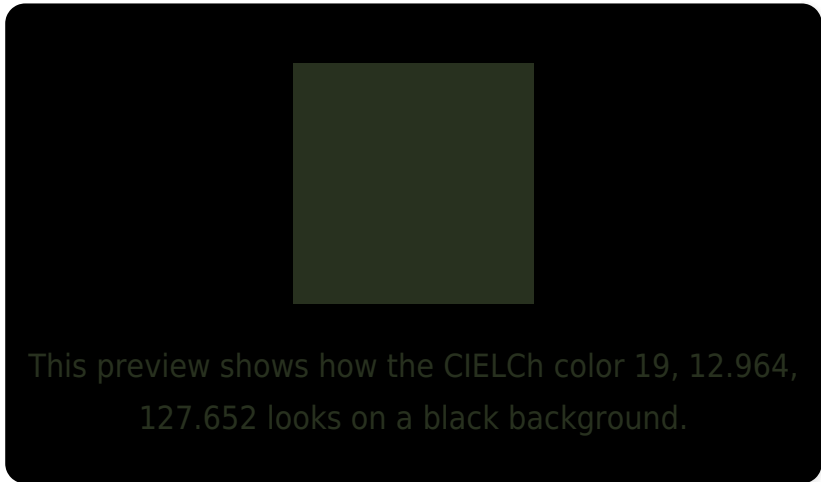
Large Text (above 18pt) WCAG AA ✓ Pass

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 19, 12.964, 127.652

Background



This preview shows how black text looks on a background with the CIELCh color 19, 12.964, 127.652.

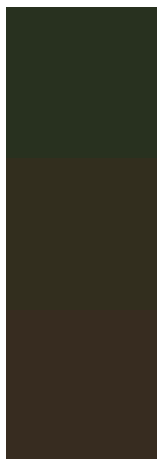


This preview shows how white text looks on a background with the CIELCh color 19, 12.964, 127.652.

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, 12.964, 127.652

Protanopia

19, 11.058, 96.497

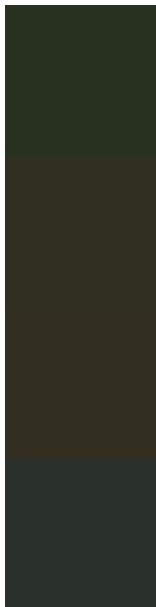
Deuteranopia

19, 10.121, 73.209



Tritanopia
19, 2.705, 248.780

Trichromacy



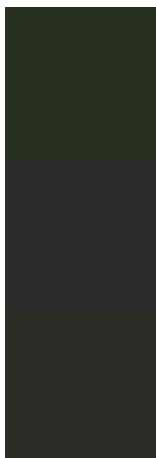
Original Color
19, 12.964, 127.652

Protanomaly
19, 11.495, 109.893

Deuteranomaly
19, 9.743, 95.465

Tritanomaly
19, 4.469, 148.756

Monochromacy



Original Color
19, 12.964, 127.652

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 5.021, 125.949

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 12.964, 127.652 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(40, 49, 31)` looks like.

```
.text, #text, p{  
    color:rgb(40, 49, 31)  
}
```

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(40, 49, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 49, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 12.964, 127.652 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(40, 49, 31) }
```

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

```
.border{ border-color:rgb(40, 49, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 49, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 49, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 49, 31);  
box-shadow:4px 4px 4px 4px rgb(40, 49, 31)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 12.964, 127.652 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 49, 31) }
```

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

```
.background{ background-color: rgb(40, 49,  
31) }
```

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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