

Converting Colors

CIELCh(19, 31.712, 121.364)

Have a look what the booklet for
CIELCh(19, 31.712, 121.364)
contains.

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Color

CIELCh(19, 31.580, 122.207)

Conversions

Conversions Part 1

Format	Color
Hex	213400
RGB	33, 52, 0
RGB Percent	13%, 20%, 0%
CMY	0.8716, 0.7973, 1.0000
CMYK	0.37, 0.00, 1.00, 0.80
HSL	82°, 100%, 10%
HSV	82°, 100%, 20%
XYZ	1.8308, 2.7468, 0.4221
YIQ	40.3910, 5.3680, -20.2000

Conversions

Conversions Part 2

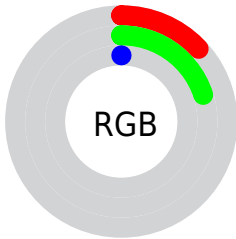
Format	Color
RYB	0, 52, 19
Decimal	2176000
CIELab	19.00, -16.83, 26.72
CIELCh	19, 31.580, 122.207
Yxy	2.7468, 0.3662, 0.5494
Android (android.graphics.Color)	4280366080 (0xFF213400)
YUV	40.3910, -19.9128, -6.4819
Hunter-Lab	16.5735, -9.2857, 10.0914

Details

The CIELCh color **19, 31.580, 122.207** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **3, 35.422, 306.636**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **39, 31.883, 122.471**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **19, 31.426, 122.305**, and if you desaturate by 10%, it is **19, 29.118, 121.969**.

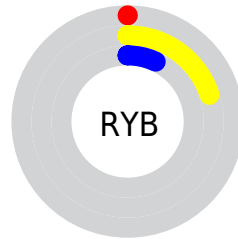
Distribution



Red (13%)

Green (20%)

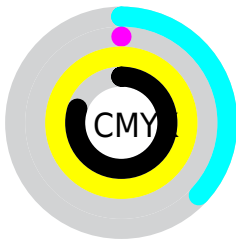
Blue (0%)



Red (0%)

Yellow (20%)

Blue (7%)

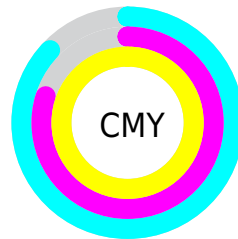


Cyan (37%)

Magenta (0%)

Yellow (100%)

Black (80%)



Cyan (87%)


Magenta (80%)


Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 31.580, 122.207 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, 31.580, 122.207 by changing the saturation by 10% instead.

 19, 31.580,
122.207


 19, 31.580,
122.207


 100, 31.580,
122.207


 9, 31.580, 122.207


 39, 31.580,
122.207

 0, 31.580, 122.207

 49, 31.580,
122.207


 59, 31.580,
122.207


 69, 31.580,
122.207


 79, 31.580,
122.207


 89, 31.580,


122.207


 99, 31.580,
122.207

 19, 31.580,
122.207


 19, 31.580,
122.207


 19, 31.426,
122.305

 19, 29.118,
121.969

 19, 26.823,
121.587

 20, 24.199,
121.436

 20, 21.071,
121.715

 20, 17.745,
122.093

■ 20, 14.295,
122.519

■ 21, 10.766,
122.967

■ 21, 7.192, 123.420

■ 21, 3.596, 123.868

Harmonies

Complementary

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



19, 31.580, 122.207



3, 35.422, 306.636

Rectangle

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



19, 31.580, 122.207



19, 31.580, 172.207



19, 31.580, 302.207



19, 31.580, 352.207

Sweetspot

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



19, 31.426, 122.305



27, 13.258, 122.900



10, 21.904, 46.859



12, 8.841, 122.891



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, 31.426, 122.305



25, 38.826, 121.415



18, 36.018, 136.401



9, 1.962, 123.965



34, 48.134, 121.806



79, 92.465, 123.116

Inverse Universe

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



3, 35.422, 306.636



5, 46.628, 309.638



7, 37.603, 323.825



8, 1.989, 304.619



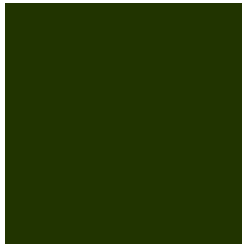
9, 59.110, 310.072



31, 113.613, 309.195

Previews

White Background



This preview shows how the CIELCh color 19, 31.580, 122.207 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

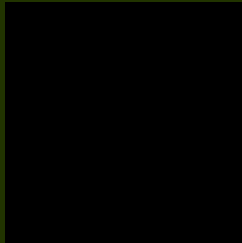
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 19, 31.580, 122.207

Background



This preview shows how black text looks on a background with the CIELCh color 19, 31.580, 122.207.



This preview shows how white text looks on a background with the CIELCh color 19, 31.580, 122.207.

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](#).

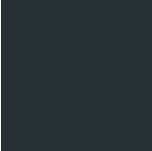
Dichromacy



Original Color
19, 31.580, 122.207

Protanopia
19, 27.350, 98.005

Deuteranopia
19, 23.094, 84.664



Tritanopia
19, 5.055, 231.690

Trichromacy



Original Color
19, 31.580, 122.207

Protanomaly
19, 28.300, 108.395

Deuteranomaly
19, 24.753, 101.719

Tritanomaly
19, 12.624, 137.762

Monochromacy



Original Color
19, 31.580, 122.207

Achromatopsia
16, 0.003, 296.813

Achromatomaly
17, 13.458, 122.509

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 31.580, 122.207 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(33, 52, 0)` looks like.

```
.text, #text, p{  
    color:rgb(33, 52, 0)  
}
```

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(33, 52, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 52, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 31.580, 122.207 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(33, 52, 0) }
```

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

```
.border{ border-color:rgb(33, 52, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 52, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 52, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(33, 52, 0); box-shadow:4px  
4px 4px 4px rgb(33, 52, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 19, 31.580, 122.207 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 52, 0) }
```

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

```
.background{ background-color: rgb(33, 52,  
0) }
```

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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