

Converting Colors

CIELCh(31, 19.503, 122.307)

Have a look what the booklet for
CIELCh(31, 19.503, 122.307)
contains.

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Color

CIELCh(31, 19.409, 122.428)

Conversions

Conversions Part 1

Format	Color
Hex	424D2F
RGB	66, 77, 47
RGB Percent	26%, 30%, 18%
CMY	0.7416, 0.6985, 0.8161
CMYK	0.14, 0.00, 0.39, 0.70
HSL	82°, 24%, 24%
HSV	82°, 39%, 30%
XYZ	5.3969, 6.6515, 3.6780
YIQ	70.2910, 3.0740, -11.6620

Conversions

Conversions Part 2

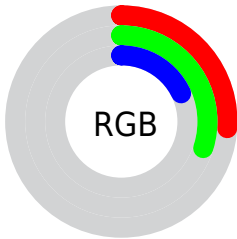
Format	Color
RYB	47, 77, 58
Decimal	4345135
CIELab	31.00, -10.41, 16.38
CIElCh	31, 19.409, 122.428
Yxy	6.6515, 0.3432, 0.4230
Android (android.graphics.Color)	4282535215 (0xFF424D2F)
YUV	70.2910, -11.4825, -3.7632
Hunter-Lab	25.7905, -7.7808, 9.5979

Details

The CIELCh color **31, 19.409, 122.428** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **22, 20.722, 306.453**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 19.680, 122.844**, and **11, 19.421, 122.517** is the 20% darker color. If you saturate the color by 10%, you get **31, 24.185, 121.981**, and if you desaturate by 10%, it is **31, 14.505, 122.909**.

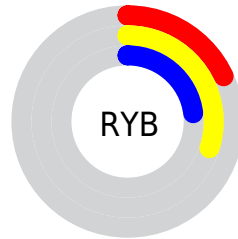
Distribution



Red (26%)

Green (30%)

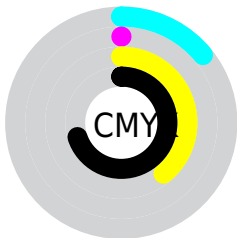
Blue (18%)



Red (18%)

Yellow (30%)

Blue (23%)

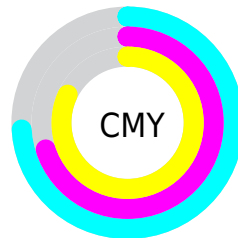


Cyan (14%)

Magenta (0%)

Yellow (39%)

Black (70%)



Cyan (74%)


Magenta (70%)


Yellow (82%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 19.409, 122.428 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 31, 19.409, 122.428 by changing the saturation by 10% instead.


 31, 19.409,
122.428


 31, 19.409,
122.428

 100, 19.409,
122.428


 21, 19.409,
122.428

 51, 19.409,
122.428


 11, 19.409,
122.428


 61, 19.409,
122.428

 1, 19.409, 122.428

 71, 19.409,
122.428

 0, 19.409, 122.428

 81, 19.409,
122.428

 91, 19.409,
122.428

■ 31, 19.409,
122.428

■ 31, 19.409,
122.428

■ 31, 24.185,
121.981

■ 31, 14.505,
122.909

■ 30, 28.750,
121.598

■ 32, 9.527, 123.396

■ 32, 4.515, 123.878

■ 30, 32.993,
121.330

■ 33, 0.503, 304.257

■ 30, 36.762,
121.249

■ 33, 5.504, 304.759

■ 30, 39.900,
121.426

■ 34, 10.475,
305.171

■ 29, 43.033,
121.482

■ 34, 15.404,
305.554

■ 29, 43.364,
121.470

■ 35, 20.282,
305.908

■ 36, 25.103,

Harmonies

Complementary

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



31, 19.409, 122.428



22, 20.722, 306.453

Rectangle

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



31, 19.409, 122.428



31, 19.409, 172.428



31, 19.409, 302.428



31, 19.409, 352.428

Sweetspot

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



31, 19.410, 122.430



41, 7.444, 123.714



26, 12.035, 56.754



21, 4.978, 123.687



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



31, 19.410, 122.430



40, 28.707, 121.994



30, 22.320, 138.669



15, 2.785, 123.895



39, 52.930, 122.067



83, 96.566, 123.165

Inverse Universe

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



22, 20.722, 306.453



26, 31.250, 307.105



24, 22.527, 322.394



14, 2.827, 304.687



12, 65.015, 309.885



33, 118.659, 309.159

Previews

White Background



This preview shows how the CIELCh color 31, 19.409, 122.428 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 CIE LCh color 31, 19.409, 122.428 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

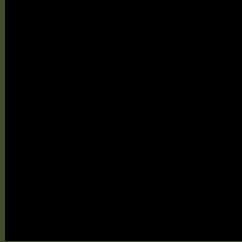
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 19.409, 122.428

Background



This preview shows how black text looks on a background with the CIELCh color 31, 19.409, 122.428.



This preview shows how white text looks on a background with the CIELCh color 31, 19.409, 122.428.

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

31, 19.409, 122.428

Protanopia

31, 17.815, 97.286

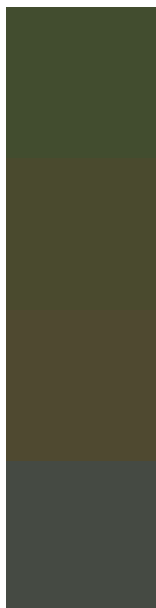
Deuteranopia

31, 15.887, 75.648



Tritanopia
31, 4.001, 272.511

Trichromacy



Original Color
31, 19.409, 122.428

Protanomaly
31, 17.515, 106.908

Deuteranomaly
31, 16.001, 96.636

Tritanomaly
31, 4.992, 135.838

Monochromacy



Original Color
31, 19.409, 122.428

Achromatopsia
30, 0.005, 296.813

Achromatomaly
30, 7.231, 123.475

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 19.409, 122.428 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(66, 77, 47)` looks like.

```
.text, #text, p{  
    color:rgb(66, 77, 47)  
}
```

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(66, 77, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 77, 47) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 19.409, 122.428 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(66, 77, 47) }
```

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

```
.border{ border-color:rgb(66, 77, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 77, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 77, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 77, 47);  
box-shadow:4px 4px 4px 4px rgb(66, 77, 47)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 19.409, 122.428 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 77, 47) }
```

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

```
.background{ background-color: rgb(66, 77,  
47) }
```

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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