

Converting Colors

CIELCh(31, 18.834, 113.063)

Have a look what the booklet for
CIELCh(31, 18.834, 113.063)
contains.

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Color

CIELCh(31, 19.423, 113.817)

Conversions

Conversions Part 1

Format	Color
Hex	474C2D
RGB	71, 76, 45
RGB Percent	28%, 30%, 18%
CMY	0.7226, 0.7029, 0.8245
CMYK	0.07, 0.00, 0.41, 0.70
HSL	70°, 26%, 24%
HSV	70°, 41%, 30%
XYZ	5.6158, 6.6515, 3.4464
YIQ	70.9710, 6.9710, -10.7010

Conversions

Conversions Part 2

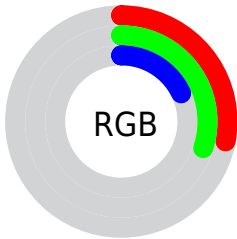
Format	Color
RYB	45, 76, 50
Decimal	4672557
CIELab	31.00, -7.84, 17.77
CIELCh	31, 19.423, 113.817
Yxy	6.6515, 0.3574, 0.4233
Android (android.graphics.Color)	4282862637 (0xFF474C2D)
YUV	70.9710, -12.8037, 0.0254
Hunter-Lab	25.7905, -6.2654, 10.1303

Details

The CIELCh color **31, 19.423, 113.817** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **20, 21.210, 299.980**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 19.659, 113.985**, and **11, 18.073, 114.744** is the 20% darker color. If you saturate the color by 10%, you get **31, 23.916, 113.208**, and if you desaturate by 10%, it is **31, 14.779, 114.468**.

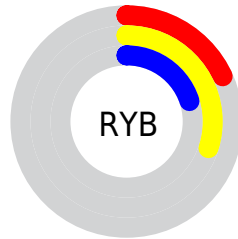
Distribution



Red (28%)

Green (30%)

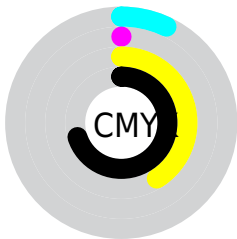
Blue (18%)



Red (18%)

Yellow (30%)

Blue (20%)

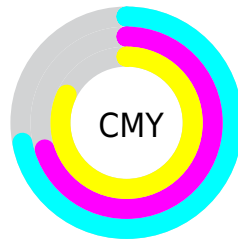


Cyan (7%)

Magenta (0%)

Yellow (41%)

Black (70%)



Cyan (72%)

Magenta (70%)

Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 19.423, 113.817 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, 19.423, 113.817 by changing the saturation by 10% instead.

■ 31, 19.423,
113.817

■ 31, 19.423,
113.817

■ 100, 19.423,
113.817

■ 21, 19.423,
113.817

■ 51, 19.423,
113.817

■ 11, 19.423,
113.817

■ 61, 19.423,
113.817

■ 1, 19.423, 113.817

■ 71, 19.423,
113.817

■ 0, 19.423, 113.817

■ 81, 19.423,
113.817

■ 91, 19.423,
113.817

■ 31, 19.423,
113.817

■ 31, 19.423,
113.817

■ 31, 23.916,
113.208

■ 31, 14.779,
114.468

■ 31, 28.170,
112.663

■ 32, 10.041,
115.132

■ 30, 32.066,
112.227

■ 32, 5.249, 115.795

■ 30, 35.443,
111.953

■ 32, 0.432, 116.443

■ 30, 38.215,
111.866

■ 33, 4.390, 297.079

■ 30, 40.868,
111.698

■ 33, 9.203, 297.686

■ 33, 13.997,
298.265

■ 34, 18.763,
298.815

■ 34, 23.494,

Harmonies

Complementary

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



31, 19.423, 113.817



20, 21.210, 299.980

Rectangle

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



31, 19.423, 113.817



31, 19.423, 163.817



31, 19.423, 293.817



31, 19.423, 343.817

Sweetspot

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



31, 19.424, 113.820



42, 7.234, 115.692



23, 13.715, 34.701



21, 4.838, 115.656



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, 19.424, 113.820



40, 28.840, 113.208



30, 21.612, 132.385



15, 2.708, 115.942



40, 50.236, 112.052



86, 91.107, 112.680

Inverse Universe

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



20, 21.210, 299.980



24, 32.367, 301.115



22, 22.347, 315.722



14, 2.758, 297.095



10, 67.197, 307.317



30, 122.393, 306.887

Previews

White Background



This preview shows how the CIELCh color 31, 19.423, 113.817 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 31, 19.423, 113.817 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

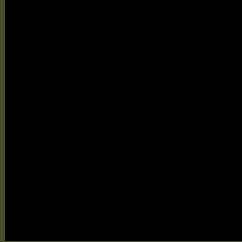
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 19.423, 113.817

Background



This preview shows how black text looks on a background with the CIELCh color 31, 19.423, 113.817.

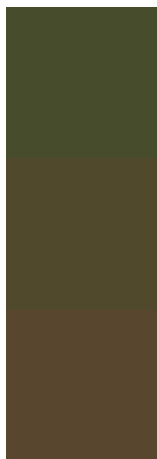


This preview shows how white text looks on a background with the CIELCh color 31, 19.423, 113.817.

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, 19.423, 113.817

Protanopia

31, 18.511, 95.934

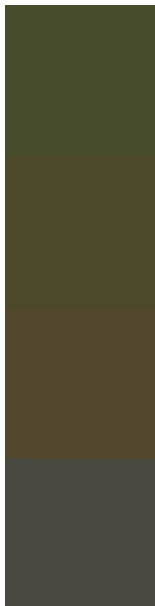
Deuteranopia

31, 17.816, 76.922



Tritanopia
31, 4.053, 309.361

Trichromacy



Original Color
31, 19.423, 113.817

Protanomaly
31, 18.787, 102.159

Deuteranomaly
31, 17.145, 90.267

Tritanomaly
31, 4.440, 109.349

Monochromacy



Original Color
31, 19.423, 113.817

Achromatopsia
30, 0.005, 296.813

Achromatomaly
31, 7.669, 115.646

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 19.423, 113.817 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(71, 76, 45)` looks like.

```
.text, #text, p{  
    color:rgb(71, 76, 45)  
}
```

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(71, 76, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 76, 45) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 19.423, 113.817 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(71, 76, 45) }
```

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

```
.border{ border-color:rgb(71, 76, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 76, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 76, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 76, 45);  
box-shadow:4px 4px 4px 4px rgb(71, 76, 45)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 19.423, 113.817 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 76, 45) }
```

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

```
.background{ background-color: rgb(71, 76,  
45) }
```

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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