

Converting Colors

CIELCh(18, 23.003, 31.501)

Have a look what the booklet for
CIELCh(18, 23.003, 31.501) contains.

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Color

CIELCh(18, 22.813, 30.330)

Conversions

Conversions Part 1

Format	Color
Hex	491F1C
RGB	73, 31, 28
RGB Percent	29%, 12%, 11%
CMY	0.7121, 0.8770, 0.8888
CMYK	0.00, 0.57, 0.61, 0.71
HSL	4°, 44%, 20%
HSV	4°, 61%, 29%
XYZ	3.4934, 2.5180, 1.4222
YIQ	43.2160, 25.9950, 7.9710

Conversions

Conversions Part 2

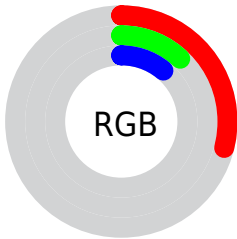
Format	Color
RYB	73, 31, 28
Decimal	4792092
CIELab	18.00, 19.69, 11.52
CIELCh	18, 22.813, 30.330
Yxy	2.5180, 0.4699, 0.3387
Android (android.graphics.Color)	4282982172 (0xFF491F1C)
YUV	43.2160, -7.5015, 26.1206
Hunter-Lab	15.8683, 11.5275, 5.7941

Details

The CIELCh color **18, 22.813, 30.330** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **27, 14.877, 204.880**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 22.821, 30.333**, and **2, 7.329, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **16, 27.203, 32.128**, and if you desaturate by 10%, it is **20, 18.534, 28.899**.

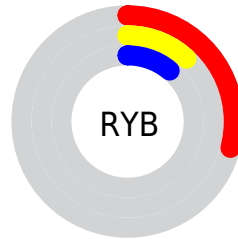
Distribution



Red (29%)

Green (12%)

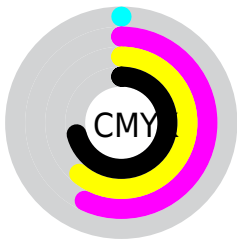
Blue (11%)



Red (29%)

Yellow (12%)

Blue (11%)

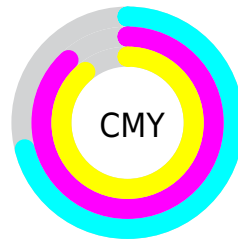


Cyan (0%)

Magenta (57%)

Yellow (61%)

Black (71%)



Cyan (71%)

Magenta (88%)

Yellow (89%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 22.813, 30.330 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 18, 22.813, 30.330 by changing the saturation by 10% instead.

 18, 22.813, 30.330

 18, 22.813, 30.330

 100, 22.813,
30.330

 8, 22.813, 30.330

 38, 22.813, 30.330

 0, 22.813, 30.330

 48, 22.813, 30.330

 58, 22.813, 30.330

 68, 22.813, 30.330

 78, 22.813, 30.330

 88, 22.813, 30.330

 98, 22.813, 30.330

■ 18, 22.813, 30.330

■ 18, 22.813, 30.330

■ 16, 27.203, 32.128

■ 20, 18.534, 28.899

■ 15, 31.147, 33.050

■ 22, 14.441, 27.780

■ 14, 34.217, 32.992

■ 24, 10.573, 26.917

■ 13, 36.616, 33.217

■ 26, 6.949, 26.254

■ 29, 3.568, 25.729

■ 31, 0.422, 24.798

■ 33, 2.505, 205.284

■ 36, 5.234, 205.037

■ 38, 7.782, 204.887

Harmonies

Complementary

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



18, 22.813, 30.330



27, 14.877, 204.880

Rectangle

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



18, 22.813, 30.330



18, 22.813, 80.330



18, 22.813, 210.330



18, 22.813, 260.330

Sweetspot

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



18, 22.812, 30.333



35, 7.124, 26.100



19, 32.509, 329.323



16, 5.022, 26.192



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



18, 22.812, 30.333



21, 35.088, 33.236



24, 19.990, 74.907



13, 1.686, 25.588



19, 48.403, 37.534



48, 94.869, 40.576

Inverse Universe

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



27, 14.877, 204.880



35, 20.111, 205.374



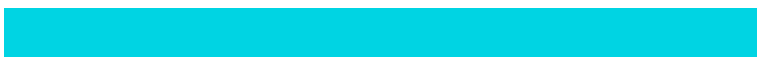
19, 18.268, 273.252



14, 1.606, 205.264



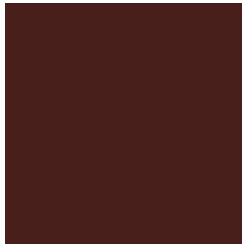
35, 23.151, 207.110



78, 42.075, 207.990

Previews

White Background



This preview shows how the CIE LCh color 18, 22.813, 30.330 looks on a white background.

Color Contrast Check

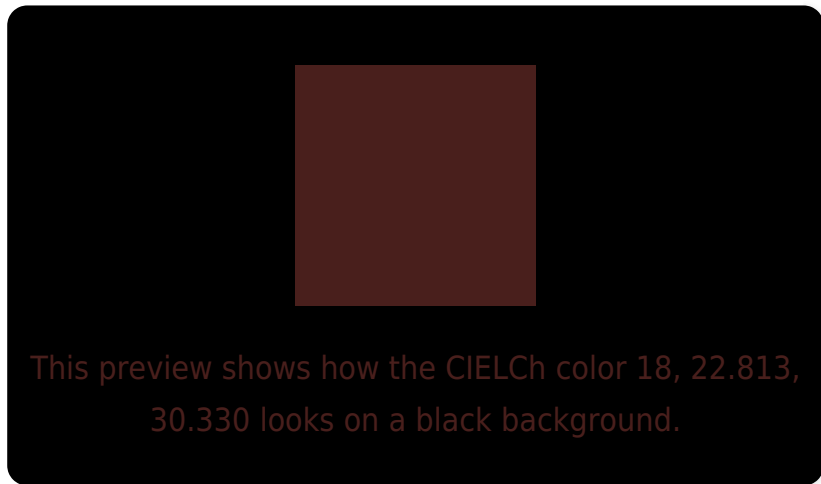
Large Text (above 18pt) WCAG AA ✓ Pass

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

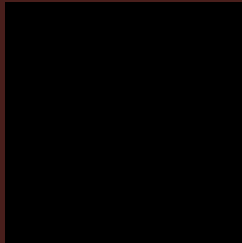
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 22.813, 30.330

Background



This preview shows how black text looks on a background with the CIELCh color 18, 22.813, 30.330.

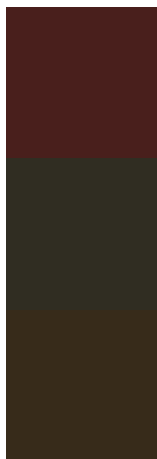


This preview shows how white text looks on a background with the CIELCh color 18, 22.813, 30.330.

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

18, 22.813, 30.330

Protanopia

18, 7.672, 96.705

Deuteranopia

18, 13.429, 78.176



Tritanopia
18, 22.313, 22.246

Trichromacy



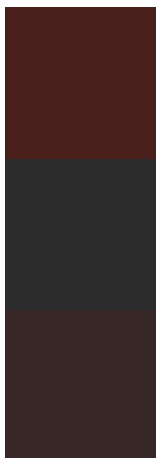
Original Color
18, 22.813, 30.330

Protanomaly
18, 10.700, 51.567

Deuteranomaly
18, 15.347, 53.327

Tritanomaly
18, 22.659, 25.583

Monochromacy



Original Color
18, 22.813, 30.330

Achromatopsia
18, 0.003, 296.813

Achromatomaly
17, 8.174, 26.070

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 22.813, 30.330 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(73, 31, 28)` looks like.

```
.text, #text, p{  
    color:rgb(73, 31, 28)  
}
```

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(73, 31, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 31, 28) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 22.813, 30.330 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(73, 31, 28) }
```

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

```
.border{ border-color:rgb(73, 31, 28) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 31, 28)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 31, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 31, 28);  
box-shadow:4px 4px 4px 4px rgb(73, 31, 28)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 22.813, 30.330 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 31, 28) }
```

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

```
.background{ background-color: rgb(73, 31,  
28) }
```

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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