

Converting Colors

CIELCh(31, 21.720, 104.837)

Have a look what the booklet for
CIELCh(31, 21.720, 104.837)
contains.

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Color

CIELCh(31, 21.670, 104.848)

Conversions

Conversions Part 1

Format	Color
Hex	4C4B28
RGB	76, 75, 40
RGB Percent	30%, 29%, 16%
CMY	0.7035, 0.7074, 0.8445
CMYK	0.00, 0.01, 0.48, 0.70
HSL	58°, 31%, 23%
HSV	58°, 48%, 30%
XYZ	5.8163, 6.6515, 2.9528
YIQ	71.3090, 11.8310, -10.6730

Conversions

Conversions Part 2

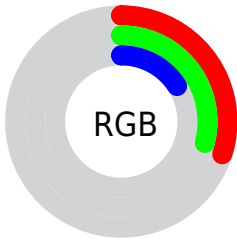
Format	Color
R_{YB}	41, 76, 40
Decimal	4999976
CIE Lab	31.00, -5.55, 20.95
CIE LCh	31, 21.670, 104.848
Yxy	6.6515, 0.3772, 0.4313
Android (android.graphics.Color)	4283190056 (0xFF4C4B28)
YUV	71.3090, -15.4353, 4.1140
Hunter-Lab	25.7905, -4.8779, 11.2651




Details

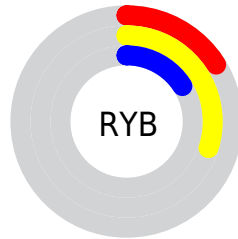
The CIELCh color **31, 21.670, 104.848** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **18, 24.122, 295.054**, and the grayscale version is **30, 0.005, 296.813**.



A 20% lighter version of the original color is **51, 21.819, 105.021**, and **11, 17.169, 105.441** is the 20% darker color. If you saturate the color by 10%, you get **31, 25.883, 104.017**, and if you desaturate by 10%, it is **31, 17.264, 105.722**.

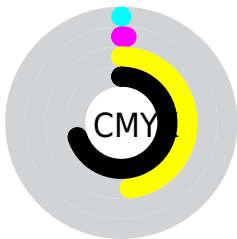
Distribution







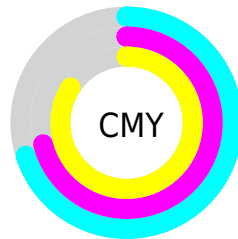
-  Red (30%)
-  Green (29%)
-  Blue (16%)






-  Red (16%)
-  Yellow (30%)
-  Blue (16%)



-  Cyan (0%)
-  Magenta (1%)
-  Yellow (48%)
-  Black (70%)





-  Cyan (70%)
-  Magenta (71%)
-  Yellow (84%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 21.670, 104.848 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, 21.670, 104.848 by changing the saturation by 10% instead.


 31, 21.670,
104.848


 31, 21.670,
104.848

 100, 21.670,
104.848


 21, 21.670,
104.848

 51, 21.670,
104.848


 11, 21.670,
104.848


 61, 21.670,
104.848

 1, 21.670, 104.848

 71, 21.670,
104.848

 0, 21.670, 104.848

 81, 21.670,
104.848

 91, 21.670,
104.848

■ 31, 21.670,
104.848

■ 31, 21.670,
104.848

■ 31, 25.883,
104.017

■ 31, 17.264,
105.722

■ 31, 29.792,
103.241

■ 31, 12.738,
106.612

■ 31, 33.247,
102.547

■ 32, 8.143, 107.507

■ 30, 36.064,
101.961

■ 32, 3.511, 108.392

■ 30, 38.770,
101.408

■ 32, 1.135, 289.312

■ 30, 39.489,
101.268

■ 33, 5.780, 290.141

■ 33, 10.414,
290.967

■ 33, 15.031,
291.765

■ 34, 19.623,

292.530

Harmonies

Complementary

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



31, 21.670, 104.848



18, 24.122, 295.054

Rectangle

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



31, 21.670, 104.848



31, 21.670, 154.848



31, 21.670, 284.848



31, 21.670, 334.848

Sweetspot

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



31, 21.671, 104.851



42, 8.146, 107.776



21, 18.218, 21.322



21, 5.669, 107.664



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, 21.671, 104.851



41, 32.069, 103.884



30, 23.742, 125.860



15, 2.614, 108.295



41, 48.511, 101.199



87, 87.669, 101.077

Inverse Universe

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



18, 24.122, 295.054



21, 37.060, 297.192



19, 25.396, 310.168



14, 2.661, 289.883



9, 66.667, 305.627



29, 122.439, 306.035

Previews

White Background



This preview shows how the CIELCh color 31, 21.670, 104.848 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, 21.670, 104.848 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

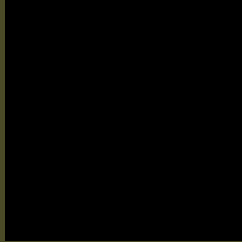
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

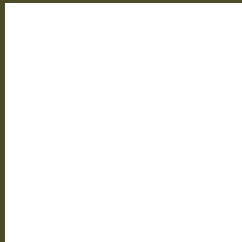
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 31, 21.670, 104.848

Background



This preview shows how black text looks on a background with the CIELCh color 31, 21.670, 104.848.



This preview shows how white text looks on a background with the CIELCh color 31, 21.670, 104.848.

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, 21.670, 104.848

Protanopia

31, 21.470, 96.743

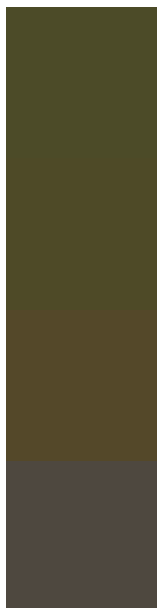
Deuteranopia

31, 20.850, 79.123



Tritanopia
31, 5.506, 336.362

Trichromacy



Original Color
31, 21.670, 104.848

Protanomaly
31, 21.803, 100.846

Deuteranomaly
31, 20.402, 89.254

Tritanomaly
31, 6.352, 83.172

Monochromacy



Original Color
31, 21.670, 104.848

Achromatopsia
30, 0.005, 296.813

Achromatomaly
30, 7.631, 105.254

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 21.670, 104.848 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(76, 75, 40)` looks like.

```
.text, #text, p{  
    color:rgb(76, 75, 40)  
}
```

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(76, 75, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 75, 40) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 21.670, 104.848 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(76, 75, 40) }
```

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

```
.border{ border-color:rgb(76, 75, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 75, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 75, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 75, 40);  
box-shadow:4px 4px 4px 4px rgb(76, 75, 40)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 21.670, 104.848 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 75, 40) }
```

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

```
.background{ background-color: rgb(76, 75,  
40) }
```

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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