

Converting Colors

CIELCh(31, 28.410, 103.836)

Have a look what the booklet for
CIELCh(31, 28.410, 103.836)
contains.

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Color

CIELCh(31, 28.388, 103.890)

Conversions

Conversions Part 1

Format	Color
Hex	4C4B1C
RGB	76, 75, 28
RGB Percent	30%, 29%, 11%
CMY	0.7020, 0.7059, 0.8902
CMYK	0.00, 0.01, 0.63, 0.70
HSL	59°, 46%, 20%
HSV	59°, 63%, 30%
XYZ	5.7053, 6.6515, 2.0814
YIQ	69.9410, 15.6830, -14.4050

Conversions

Conversions Part 2

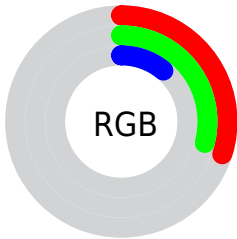
Format	Color
RYB	29, 76, 28
Decimal	4999964
CIELab	31.00, -6.81, 27.56
CIELCh	31, 28.388, 103.890
Yxy	6.6515, 0.3952, 0.4607
Android (android.graphics.Color)	4283190044 (0xFF4C4B1C)
YUV	69.9410, -20.6769, 5.3137
Hunter-Lab	25.7905, -5.6463, 13.2683

Details

The CIELCh color **31, 28.388, 103.890** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **14, 33.338, 298.215**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 28.472, 104.645**, and **11, 17.197, 109.511** is the 20% darker color. If you saturate the color by 10%, you get **31, 32.089, 103.174**, and if you desaturate by 10%, it is **31, 24.298, 104.686**.

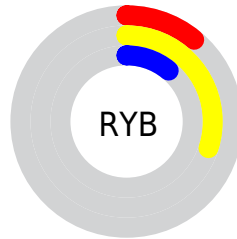
Distribution



 Red (30%)

 Green (29%)

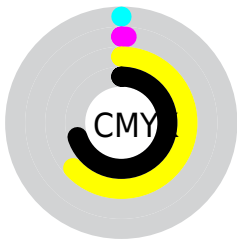
 Blue (11%)



 Red (11%)

 Yellow (30%)

 Blue (11%)

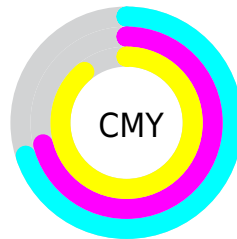


 Cyan (0%)

 Magenta (1%)

 Yellow (63%)

 Black (70%)



 Cyan (70%)


 Magenta (71%)


 Yellow (89%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 28.388, 103.890 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, 28.388, 103.890 by changing the saturation by 10% instead.


 31, 28.388,
103.890


 31, 28.388,
103.890

 100, 28.388,
103.890


 21, 28.388,
103.890

 51, 28.388,
103.890


 11, 28.388,
103.890


 61, 28.388,
103.890

 1, 28.388, 103.890

 71, 28.388,
103.890

 0, 28.388, 103.890

 81, 28.388,
103.890

 91, 28.388,
103.890

■ 31, 28.388,
103.890

■ 31, 28.388,
103.890

■ 31, 32.089,
103.174

■ 31, 24.298,
104.686

■ 31, 35.227,
102.557

■ 31, 19.950,
105.529

■ 31, 37.847,
102.032

■ 32, 15.441,
106.403

■ 31, 39.803,
101.658

■ 32, 10.834,
107.291

■ 32, 6.170, 108.179

■ 32, 1.480, 109.043

■ 33, 3.219, 289.943

■ 33, 7.913, 290.778

■ 33, 12.594,

Harmonies

Complementary

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



31, 28.388, 103.890



14, 33.338, 298.215

Rectangle

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



31, 28.388, 103.890



31, 28.388, 153.890



31, 28.388, 283.890



31, 28.388, 333.890

Sweetspot

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



31, 28.388, 103.893



42, 11.116, 107.597



18, 25.149, 24.352



21, 7.710, 107.451



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, 28.388, 103.893



40, 40.885, 102.806



29, 31.043, 125.318



15, 2.632, 108.574



41, 48.735, 101.607



87, 88.101, 101.516

Inverse Universe

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



14, 33.338, 298.215



14, 51.114, 301.441



16, 34.077, 310.962



14, 2.680, 290.154



9, 67.050, 305.786



29, 122.711, 306.096

Previews

White Background



This preview shows how the CIELCh color 31, 28.388, 103.890 looks on a white background.

Color Contrast Check

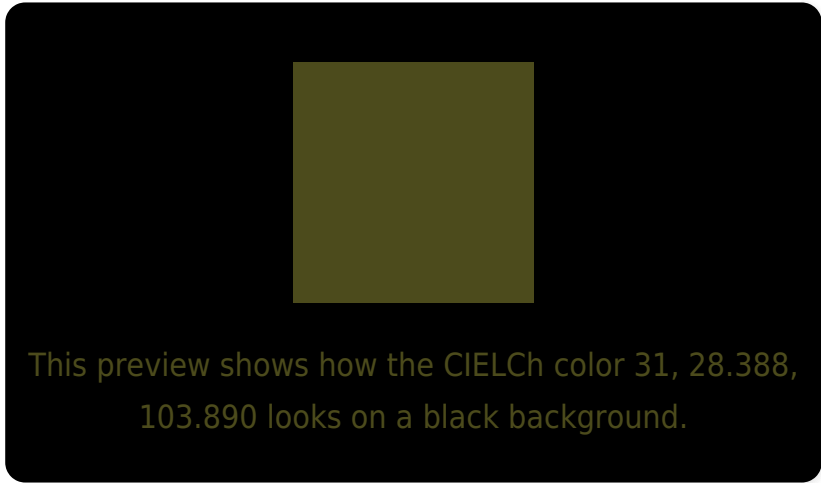
Large Text (above 18pt) WCAG AA ✓ Pass

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

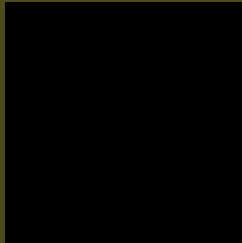
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 28.388, 103.890

Background



This preview shows how black text looks on a background with the CIELCh color 31, 28.388, 103.890.



This preview shows how white text looks on a background with the CIELCh color 31, 28.388, 103.890.

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

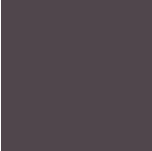
31, 28.388, 103.890

Protanopia

31, 28.350, 95.468

Deuteranopia

31, 27.079, 80.414



Tritanopia
31, 5.829, 339.462

Trichromacy



Original Color
31, 28.388, 103.890

Protanomaly
31, 28.603, 98.669

Deuteranomaly
31, 27.103, 88.532

Tritanomaly
31, 8.889, 86.827

Monochromacy



Original Color
31, 28.388, 103.890

Achromatopsia
30, 0.005, 296.813

Achromatomaly
30, 10.772, 108.142

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 28.388, 103.890 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, 28)` looks like.

```
.text, #text, p{  
    color:rgb(76, 75, 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(76, 75, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 75, 28) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 28.388, 103.890 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, 28) }
```

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

```
.border{ border-color:rgb(76, 75, 28) }
```

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, 28)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 75, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 75, 28);  
box-shadow:4px 4px 4px 4px rgb(76, 75, 28)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 28.388, 103.890 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, 28) }
```

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

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