

Converting Colors

CIELCh(31, 33.407, 28.332)

Have a look what the booklet for
CIELCh(31, 33.407, 28.332) contains.

CIELCh(31, 33.516, 28.065)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(31, 33.516, 28.065)

Conversions

Conversions Part 1

Format	Color
Hex	783432
RGB	120, 52, 50
RGB Percent	47%, 20%, 20%
CMY	0.5301, 0.7967, 0.8045
CMYK	0.00, 0.57, 0.58, 0.53
HSL	2°, 41%, 33%
HSV	2°, 58%, 47%
XYZ	9.5147, 6.6515, 3.7838
YIQ	72.1040, 41.1700, 13.7940

Conversions

Conversions Part 2

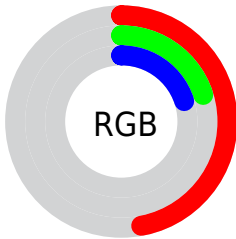
Format	Color
R_{YB}	120, 52, 50
Decimal	7877682
CIE _{Lab}	31.00, 29.58, 15.77
CIE _{LCh}	31, 33.516, 28.065
Yxy	6.6515, 0.4769, 0.3334
Android (android.graphics.Color)	4286067762 (0xFF783432)
YUV	72.1040, -10.8973, 42.0048
Hunter-Lab	25.7905, 20.7197, 9.3546

Details

The CIELCh color **31, 33.516, 28.065** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **46, 21.941, 200.198**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **51, 33.631, 28.402**, and **11, 33.401, 28.010** is the 20% darker color. If you saturate the color by 10%, you get **29, 40.132, 30.385**, and if you desaturate by 10%, it is **34, 26.993, 26.234**.

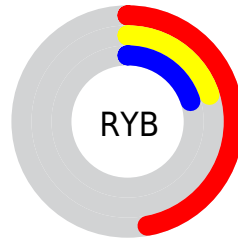
Distribution



Red (47%)

Green (20%)

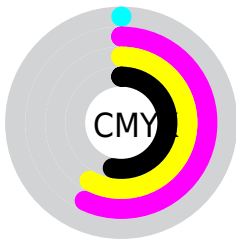
Blue (20%)



Red (47%)

Yellow (20%)

Blue (20%)

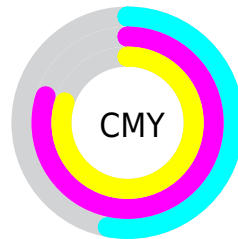


Cyan (0%)

Magenta (57%)

Yellow (58%)

Black (53%)



Cyan (53%)

Magenta (80%)

Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 33.516, 28.065 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, 33.516, 28.065 by changing the saturation by 10% instead.

31, 33.516, 28.065

31, 33.516, 28.065

100, 33.516,
28.065

21, 33.516, 28.065

51, 33.516, 28.065

11, 33.516, 28.065

61, 33.516, 28.065

1, 33.516, 28.065

71, 33.516, 28.065

0, 33.516, 28.065

81, 33.516, 28.065

91, 33.516, 28.065

31, 33.516, 28.065

31, 33.516, 28.065

29, 40.132, 30.385

34, 26.993, 26.234

■ 26, 46.627, 33.179

■ 37, 20.717, 24.812

■ 25, 52.589, 36.164

■ 40, 14.776, 23.716

■ 24, 56.918, 38.120

■ 44, 9.217, 22.868

■ 24, 57.584, 38.410

■ 47, 4.047, 22.177

■ 51, 0.747, 202.291

■ 55, 5.191, 201.476

■ 58, 9.319, 201.151

■ 62, 13.165,
200.912

Harmonies

Complementary

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



31, 33.516, 28.065



46, 21.941, 200.198

Rectangle

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



31, 33.516, 28.065



31, 33.516, 78.065



31, 33.516, 208.065



31, 33.516, 258.065

Sweetspot

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



31, 33.514, 28.068



56, 11.172, 22.872



33, 47.796, 327.778



28, 7.897, 23.060



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



31, 33.514, 28.068



37, 51.146, 31.268



39, 28.045, 70.033



23, 2.674, 22.219



24, 58.639, 38.591



52, 102.643, 40.205

Inverse Universe

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



46, 21.941, 200.198



58, 29.902, 200.198



35, 24.286, 268.440



24, 2.532, 201.550



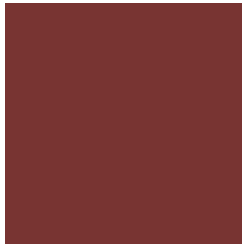
45, 28.021, 200.789



87, 47.411, 201.043

Previews

White Background



This preview shows how the CIELCh color 31, 33.516, 28.065 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, 33.516, 28.065 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, 33.516, 28.065

Background



This preview shows how black text looks on a background with the CIELCh color 31, 33.516, 28.065.

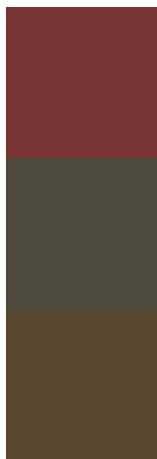


This preview shows how white text looks on a background with the CIELCh color 31, 33.516, 28.065.

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, 33.516, 28.065

Protanopia

31, 9.651, 97.193

Deuteranopia

31, 17.552, 74.705



Tritanopia
31, 32.992, 22.080

Trichromacy



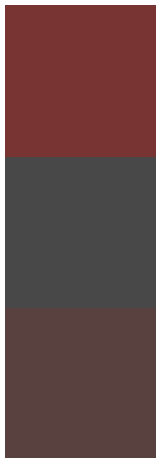
Original Color
31, 33.516, 28.065

Protanomaly
31, 14.779, 46.370

Deuteranomaly
31, 21.336, 47.970

Tritanomaly
31, 33.305, 24.175

Monochromacy



Original Color
31, 33.516, 28.065

Achromatopsia
31, 0.005, 296.813

Achromatomaly
30, 11.268, 24.508

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 33.516, 28.065 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(120, 52, 50)` looks like.

```
.text, #text, p{  
    color:rgb(120, 52, 50)  
}
```

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(120, 52, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 52, 50) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 33.516, 28.065 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(120, 52, 50) }
```

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

```
.border{ border-color:rgb(120, 52, 50) }
```

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

Here you see how a box with a 4 pixel rgb(120, 52, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 52, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 52, 50);  
box-shadow:4px 4px 4px 4px rgb(120, 52,  
50) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 33.516, 28.065 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 52, 50) }
```

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

```
.background{ background-color: rgb(120, 52,  
50) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor