

Converting Colors

CIELCh(18, 2.843, 54.691)

Have a look what the booklet for
CIELCh(18, 2.843, 54.691) contains.

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Color

CIELCh(18, 2.812, 49.026)

Conversions

Conversions Part 1

Format	Color
Hex	302B29
RGB	48, 43, 41
RGB Percent	19%, 17%, 16%
CMY	0.8117, 0.8313, 0.8391
CMYK	0.00, 0.10, 0.15, 0.81
HSL	17°, 8%, 17%
HSV	17°, 15%, 19%
XYZ	2.4848, 2.5180, 2.4545
YIQ	44.2670, 3.6220, 0.4380

Conversions

Conversions Part 2

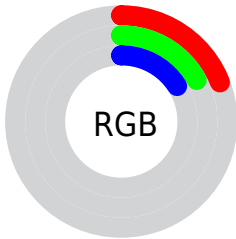
Format	Color
R_YB	48, 44, 41
Decimal	3156777
CIE Lab	18.00, 1.84, 2.12
CIE LCh	18, 2.812, 49.026
Yxy	2.5180, 0.3332, 0.3377
Android (android.graphics.Color)	4281346857 (0xFF302B29)
YUV	44.2670, -1.6106, 3.2738
Hunter-Lab	15.8683, 0.1815, 1.9370

Details

The CIELCh color **18, 2.812, 49.026** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **19, 2.628, 230.738**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 2.861, 44.973**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **17, 4.895, 48.645**, and if you desaturate by 10%, it is **19, 0.855, 49.361**.

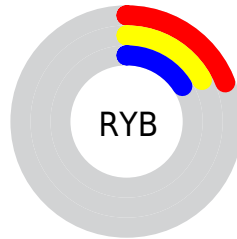
Distribution



Red (19%)

Green (17%)

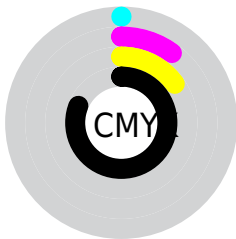
Blue (16%)



Red (19%)

Yellow (17%)

Blue (16%)

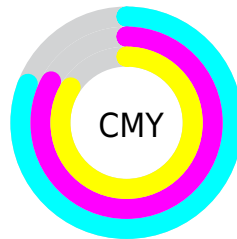


Cyan (0%)

Magenta (10%)

Yellow (15%)

Black (81%)



Cyan (81%)

Magenta (83%)

Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 2.812, 49.026 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, 2.812, 49.026 by changing the saturation by 10% instead.

 18, 2.812, 49.026  18, 2.812, 49.026

 100, 2.812, 49.026  8, 2.812, 49.026

 38, 2.812, 49.026  0, 2.812, 49.026

 48, 2.812, 49.026

 58, 2.812, 49.026

 68, 2.812, 49.026

 78, 2.812, 49.026

 88, 2.812, 49.026

 98, 2.812, 49.026

 18, 2.812, 49.026  18, 2.812, 49.026

■ 17, 4.895, 48.645	■ 19, 0.855, 49.361
■ 15, 7.114, 48.287	■ 21, 0.986, 230.282
■ 14, 9.477, 47.994	■ 22, 2.722, 230.688
■ 13, 11.988, 47.782	■ 23, 4.363, 231.205
■ 12, 14.372, 46.671	■ 25, 5.919, 231.746
■ 11, 16.416, 44.326	■ 26, 7.399, 232.294
■ 10, 18.219, 41.452	■ 27, 8.810, 232.843
■ 9, 19.997, 39.264	■ 28, 10.161, 233.389
■ 8, 20.948, 38.390	■ 30, 11.457, 233.927

Harmonies

Complementary

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



18, 2.812, 49.026



19, 2.628, 230.738

Rectangle

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



18, 2.812, 49.026



18, 2.812, 99.026



18, 2.812, 229.026



18, 2.812, 279.026

Sweetspot

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



18, 2.812, 49.044



25, 0.915, 49.360



18, 4.818, 334.408



11, 0.635, 49.361



65, 0.008, 296.813



12, 0.003, 296.813

Same Dimension

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



18, 2.812, 49.044



23, 4.064, 48.911



19, 3.807, 97.983



7, 0.914, 48.561



19, 39.315, 45.727



49, 83.818, 46.453

Inverse Universe

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



19, 2.628, 230.738



24, 3.734, 230.958



17, 3.854, 280.884



7, 0.913, 231.070



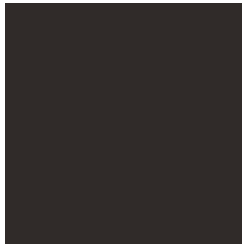
24, 21.217, 249.260



60, 42.190, 253.971

Previews

White Background



This preview shows how the CIELCh color 18, 2.812, 49.026 looks on a white background.

Color Contrast Check

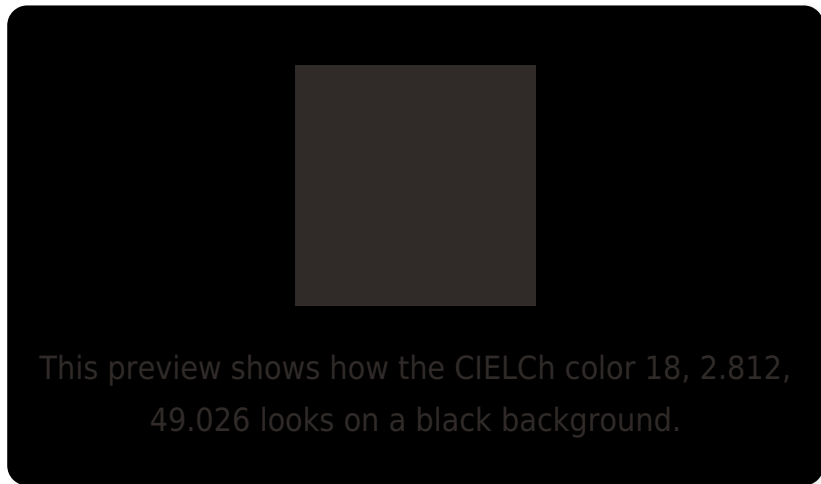
Large Text (above 18pt) WCAG AA ✓ Pass

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

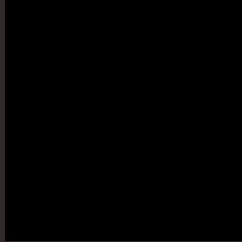
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 2.812, 49.026

Background



This preview shows how black text looks on a background with the CIELCh color 18, 2.812, 49.026.

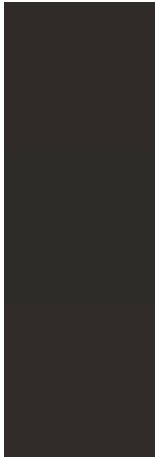


This preview shows how white text looks on a background with the CIELCh color 18, 2.812, 49.026.

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, 2.812, 49.026

Protanopia

18, 2.115, 96.354

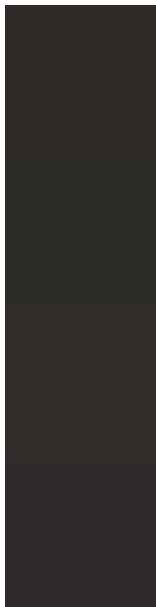
Deuteranopia

18, 3.259, 44.803



Tritanopia
18, 4.335, 340.892

Trichromacy



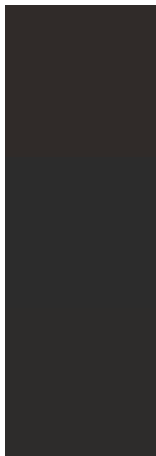
Original Color
18, 2.812, 49.026

Protanomaly
18, 2.275, 84.253

Deuteranomaly
18, 3.259, 44.803

Tritanomaly
18, 3.649, 358.056

Monochromacy



Original Color
18, 2.812, 49.026

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 0.833, 74.827

CSS Examples

Text

The CSS property to change the color of the text to CIE LCh 18, 2.812, 49.026 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(48, 43, 41)` looks like.

```
.text, #text, p{  
    color:rgb(48, 43, 41)  
}
```

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(48, 43, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 43, 41) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 2.812, 49.026 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(48, 43, 41) }
```

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

```
.border{ border-color:rgb(48, 43, 41) }
```

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

Here you see how a box with a 4 pixel rgb(48, 43, 41) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 43, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 43, 41);  
box-shadow:4px 4px 4px 4px rgb(48, 43, 41)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 2.812, 49.026 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 43, 41) }
```

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

```
.background{ background-color: rgb(48, 43,  
41) }
```

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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