

Converting Colors

CIELCh(33, 0.310, 37.146)

Have a look what the booklet for
CIELCh(33, 0.310, 37.146) contains.

| | |
|--|----|
| CIELCh(33, 0.435, 18.831) | 3 |
| <i>Conversions</i> | 4 |
| <i>Details</i> | 6 |
| <i>Harmonies</i> | 11 |
| <i>Previews</i> | 19 |
| <i>Color Blindness Simulation</i> | 22 |
| <i>CSS Examples</i> | 25 |

Color

CIELCh(33, 0.435, 18.831)

Conversions

Conversions Part 1

| Format | Color |
|---------------|-------------------------|
| Hex | 4E4D4D |
| RGB | 78, 77, 77 |
| RGB Percent | 31%, 30%, 30% |
| CMY | 0.6926, 0.6966, 0.6966 |
| CMYK | 0.00, 0.01, 0.01, 0.69 |
| HSL | 0°, 1%, 31% |
| HSV | 0°, 1%, 31% |
| XYZ | 7.2059, 7.5373, 8.1660 |
| YIQ | 77.2990, 0.5960, 0.2120 |

Conversions

Conversions Part 2

| Format | Color |
|-------------------------------------|-----------------------------|
| R_{YB} | 78, 77, 77 |
| Decimal | 5131597 |
| CIE Lab | 33.00, 0.41, 0.14 |
| CIE LCh | 33, 0.435, 18.831 |
| Yxy | 7.5373, 0.3145, 0.3290 |
| Android (android.graphics.Color) | 4283321677 (0xFF4E4D4D) |
| YUV | 77.2990, -0.1474, 0.6148 |
| Hunter-Lab | 27.4541, -1.1934, 1.5826 |

Details

The CIELCh color **33, 0.435, 18.831** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **33, 0.430, 200.122**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 0.399, 18.464**, and **13, 0.497, 19.203** is the 20% darker color. If you saturate the color by 10%, you get **30, 3.970, 20.110**, and if you desaturate by 10%, it is **36, 2.858, 199.236**.

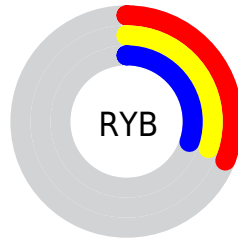
Distribution



Red (31%)

Green (30%)

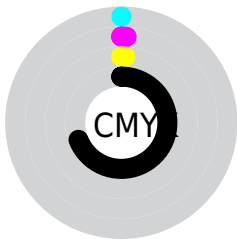
Blue (30%)



Red (31%)

Yellow (30%)

Blue (30%)

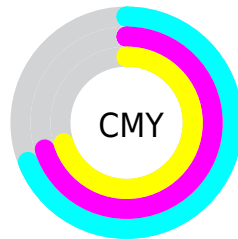


Cyan (0%)

Magenta (1%)

Yellow (1%)

Black (69%)



Cyan (69%)

Magenta (70%)

Yellow (70%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 0.435, 18.831 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 33, 0.435, 18.831 by changing the saturation by 10% instead.

■ 33, 0.435, 18.831 ■ 33, 0.435, 18.831

100, 0.435, 18.831 ■ 23, 0.435, 18.831

■ 53, 0.435, 18.831 ■ 13, 0.435, 18.831

■ 63, 0.435, 18.831 ■ 3, 0.435, 18.831

■ 73, 0.435, 18.831 ■ 0, 0.435, 18.831

■ 83, 0.435, 18.831

■ 93, 0.435, 18.831

■ 33, 0.435, 18.831 ■ 33, 0.435, 18.831

■ 30, 3.970, 20.110 ■ 36, 2.858, 199.236

■ 28, 7.761, 20.875 ■ 38, 5.928, 198.809

25, 11.813, 21.814

41, 8.796, 198.488

23, 16.109, 23.001

44, 11.483,
198.230

21, 20.611, 24.512

46, 14.010,
198.017

19, 25.247, 26.431

17, 29.913, 28.828

49, 16.395,
197.841

16, 34.143, 30.830

52, 18.655,
197.692

14, 37.330, 31.559

54, 20.805,
197.567

57, 22.857,
197.461

Harmonies

Complementary

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



33, 0.435, 18.831



33, 0.430, 200.122

Rectangle

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



33, 0.435, 18.831



33, 0.435, 68.831



33, 0.435, 198.831



33, 0.435, 248.831

Sweetspot

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



33, 0.434, 18.952



43, 0.006, 296.813



33, 0.773, 324.335



21, 0.004, 296.813



73, 0.009, 296.813

Same Dimension

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



33, 0.434, 18.952



43, 0.848, 19.244



33, 0.376, 74.782



15, 0.372, 19.145



19, 50.479, 36.002



48, 96.548, 40.012

Inverse Universe

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



33, 0.430, 200.122



43, 0.837, 199.831



33, 0.383, 256.048



15, 0.368, 199.930



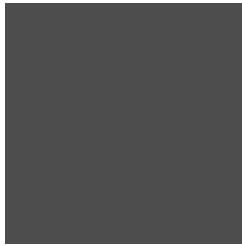
39, 25.520, 196.604



83, 46.176, 196.620

Previews

White Background



This preview shows how the CIELCh color 33, 0.435, 18.831 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 33, 0.435, 18.831 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

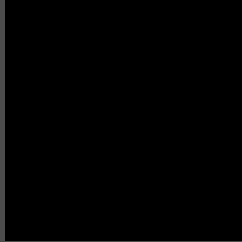
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

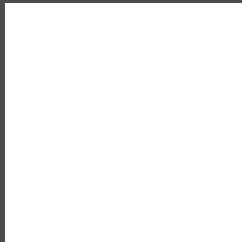
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 33, 0.435, 18.831

Background



This preview shows how black text looks on a background with the CIELCh color 33, 0.435, 18.831.

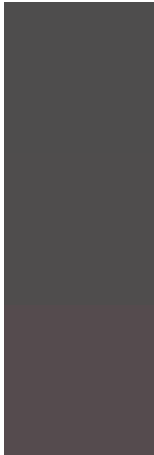


This preview shows how white text looks on a background with the CIELCh color 33, 0.435, 18.831.

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


33, 0.435, 18.831

Protanopia

33, 0.871, 19.218

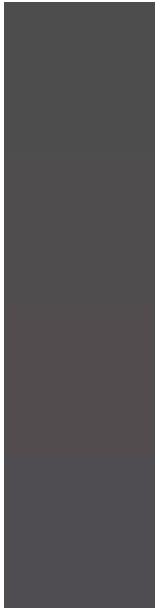
Deuteranopia

33, 4.784, 356.940



Tritanopia
33, 3.890, 303.403

Trichromacy



Original Color

33, 0.435, 18.831

Protanomaly

33, 0.871, 19.218

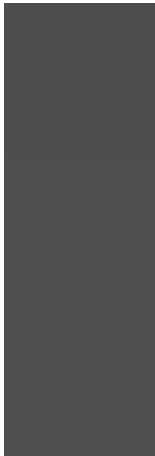
Deuteranomaly

33, 3.318, 357.606

Tritanomaly

33, 2.676, 309.241

Monochromacy



Original Color

33, 0.435, 18.831

Achromatopsia

33, 0.005, 296.813

Achromatomaly

33, 0.005, 296.813

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 0.435, 18.831 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(78, 77, 77)` looks like.

```
.text, #text, p{  
    color:rgb(78, 77, 77)  
}
```

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(78, 77, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 77, 77) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 0.435, 18.831 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(78, 77, 77) }
```

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

```
.border{ border-color:rgb(78, 77, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 77, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 77, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 77, 77);  
box-shadow:4px 4px 4px 4px rgb(78, 77, 77)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 0.435, 18.831 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 77, 77) }
```

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

```
.background{ background-color: rgb(78, 77,  
77) }
```

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