

Converting Colors

CIELCh(33, 0.414, 281.668)

Have a look what the booklet for
CIELCh(33, 0.414, 281.668) contains.

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Color

CIELCh(33, 0.431, 199.993)

Conversions

Conversions Part 1

Format	Color
Hex	4D4E4E
RGB	77, 78, 78
RGB Percent	30%, 31%, 31%
CMY	0.6988, 0.6949, 0.6949
CMYK	0.01, 0.00, 0.00, 0.69
HSL	180°, 1%, 30%
HSV	180°, 1%, 31%
XYZ	7.1228, 7.5373, 8.2498
YIQ	77.7010, -0.5960, -0.2120

Conversions

Conversions Part 2

Format	Color
RYB	77, 78, 78
Decimal	5066318
CIELab	33.00, -0.41, -0.15
CIElCh	33, 0.431, 199.993
Yxy	7.5373, 0.3109, 0.3290
Android (android.graphics.Color)	4283256398 (0xFF4D4E4E)
YUV	77.7010, 0.1474, -0.6148
Hunter-Lab	27.4541, -1.7338, 1.4015

Details

The CIELCh color **33, 0.431, 199.993** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **33, 0.436, 18.717**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 0.395, 200.363**, and **13, 0.490, 199.623** is the 20% darker color. If you saturate the color by 10%, you get **32, 3.709, 198.805**, and if you desaturate by 10%, it is **34, 2.976, 19.646**.

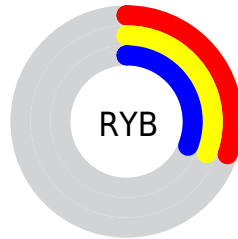
Distribution



Red (30%)

Green (31%)

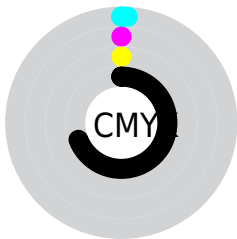
Blue (31%)



Red (30%)

Yellow (31%)

Blue (31%)

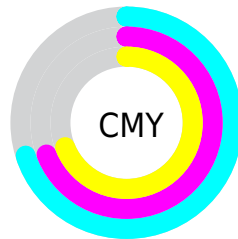


Cyan (1%)

Magenta (0%)

Yellow (0%)

Black (69%)



Cyan (70%)

Magenta (69%)

Yellow (69%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 0.431, 199.993 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, 0.431, 199.993 by changing the saturation by 10% instead.

■ 33, 0.431, 199.993

■ 33, 0.431, 199.993

100, 0.431,
199.993

■ 23, 0.431, 199.993

■ 53, 0.431, 199.993

■ 13, 0.431, 199.993

■ 63, 0.431, 199.993

■ 3, 0.431, 199.993

■ 73, 0.431, 199.993

■ 0, 0.431, 199.993

■ 83, 0.431, 199.993

■ 93, 0.431, 199.993

■ 33, 0.431, 199.993

■ 33, 0.431, 199.993

■ 32, 3.709, 198.805

■ 34, 2.976, 19.646

■ 32, 6.816, 198.309

■ 35, 6.477, 20.235

■ 31, 9.710, 197.872

■ 35, 10.042, 20.803

■ 31, 12.345,
197.484

■ 36, 13.646, 21.373

■ 30, 14.681,
197.144

■ 37, 17.267, 21.944

■ 30, 16.678,
196.856

■ 38, 20.889, 22.515

■ 30, 18.311,
196.620

■ 40, 28.088, 23.645

■ 30, 19.565,
196.437

■ 41, 31.648, 24.199

■ 29, 20.476,
196.301

Harmonies

Complementary

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



33, 0.431, 199.993



33, 0.436, 18.717

Rectangle

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



33, 0.431, 199.993



33, 0.431, 249.993



33, 0.431, 19.993



33, 0.431, 69.993

Sweetspot

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



33, 0.432, 199.872



43, 0.006, 296.813



33, 0.762, 144.106



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, 0.432, 199.872



43, 0.838, 199.586



33, 0.379, 254.239



15, 0.369, 199.684



39, 25.597, 196.181



83, 46.325, 196.166

Inverse Universe

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



33, 0.436, 18.717



43, 0.849, 19.003



33, 0.373, 72.937



15, 0.373, 18.904



19, 50.472, 35.905



48, 96.507, 39.955

Previews

White Background



This preview shows how the CIELCh color 33, 0.431, 199.993 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, 0.431, 199.993 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

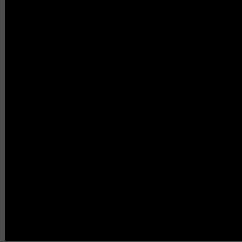
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

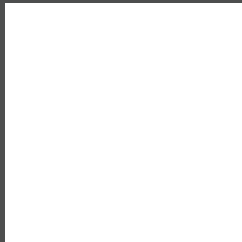
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 33, 0.431, 199.993

Background



This preview shows how black text looks on a background with the CIELCh color 33, 0.431, 199.993.



This preview shows how white text looks on a background with the CIELCh color 33, 0.431, 199.993.

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, 0.431, 199.993

Protanopia

33, 0.871, 19.218

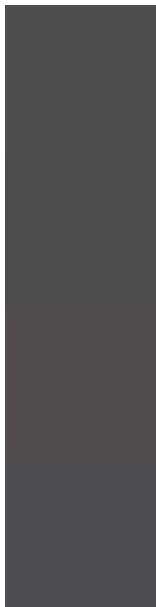
Deuteranopia

33, 4.784, 356.940



Tritanopia
33, 3.816, 297.195

Trichromacy



Original Color

33, 0.431, 199.993

Protanomaly

33, 0.435, 18.831

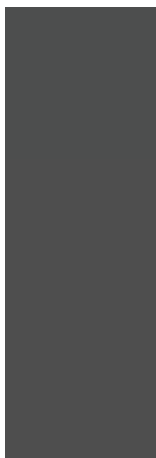
Deuteranomaly

33, 2.915, 354.225

Tritanomaly

33, 2.567, 300.184

Monochromacy



Original Color

33, 0.431, 199.993

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, 0.431, 199.993 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(77, 78, 78)` looks like.

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

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

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

Border

The CSS property to change the border of an element to CIELCh 33, 0.431, 199.993 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(77, 78, 78) }
```

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

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

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

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

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

Background

The CSS property to change the background color of an element to CIELCh 33, 0.431, 199.993 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

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

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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