

Converting Colors

CIELCh(33, 1.712, 236.317)

Have a look what the booklet for
CIELCh(33, 1.712, 236.317) contains.

CIELCh(33, 1.778, 244.630)	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(33, 1.778, 244.630)

Conversions

Conversions Part 1

Format	Color
Hex	4B4E50
RGB	75, 78, 80
RGB Percent	29%, 31%, 31%
CMY	0.7056, 0.6938, 0.6860
CMYK	0.06, 0.02, 0.00, 0.69
HSL	204°, 3%, 30%
HSV	204°, 6%, 31%
XYZ	7.0867, 7.5373, 8.6840
YIQ	77.3310, -2.4300, -0.0140

Conversions

Conversions Part 2

Format	Color
R_{YB}	75, 77, 80
Decimal	4935248
CIE Lab	33.00, -0.76, -1.61
CIE LCh	33, 1.778, 244.630
Yxy	7.5373, 0.3040, 0.3234
Android (android.graphics.Color)	4283125328 (0xFF4B4E50)
YUV	77.3310, 1.3158, -2.0443
Hunter-Lab	27.4541, -1.9685, 0.4640

Details

The CIELCh color **33, 1.778, 244.630** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **33, 1.813, 63.162**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 1.640, 244.481**, and **13, 2.003, 245.163** is the 20% darker color. If you saturate the color by 10%, you get **31, 4.566, 245.639**, and if you desaturate by 10%, it is **35, 1.075, 63.310**.

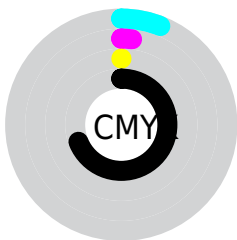
Distribution



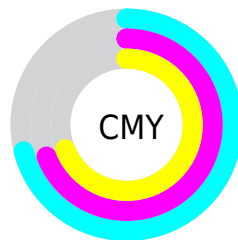
- Red (29%)
- Green (31%)
- Blue (31%)



- Red (29%)
- Yellow (30%)
- Blue (31%)



- Cyan (6%)
- Magenta (2%)
- Yellow (0%)
- Black (69%)



















- Cyan (71%)
- Magenta (69%)
- Yellow (69%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 1.778, 244.630 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, 1.778, 244.630 by changing the saturation by 10% instead.

 33, 1.778, 244.630	 33, 1.778, 244.630
 100, 1.778, 244.630	 23, 1.778, 244.630
 53, 1.778, 244.630	 13, 1.778, 244.630
 63, 1.778, 244.630	 3, 1.778, 244.630
 73, 1.778, 244.630	 0, 1.778, 244.630
 83, 1.778, 244.630	
 93, 1.778, 244.630	
 33, 1.778, 244.630	 33, 1.778, 244.630
 31, 4.566, 245.639	 35, 1.075, 63.310

■ 30, 7.271, 246.959

■ 36, 3.976, 62.668

■ 28, 9.877, 248.552

■ 38, 6.913, 62.015

■ 26, 12.365,
250.467

■ 40, 9.874, 61.444

■ 25, 14.722,
252.758

■ 42, 12.848, 60.949

■ 43, 15.828, 60.518

■ 23, 16.941,
255.481

■ 45, 18.807, 60.141

■ 22, 19.029,
258.683

■ 47, 21.780, 59.810

■ 49, 24.742, 59.515

■ 21, 21.007,
262.380

■ 19, 22.989,
266.122

Harmonies

Complementary

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



33, 1.778, 244.630



33, 1.813, 63.162

Rectangle

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



33, 1.778, 244.630



33, 1.778, 294.630



33, 1.778, 64.630



33, 1.778, 114.630

Sweetspot

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



33, 1.778, 244.597



44, 0.715, 244.441



34, 2.915, 157.509



22, 0.410, 244.464



74, 0.009, 296.813



22, 0.004, 296.813

Same Dimension

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



33, 1.778, 244.597



43, 2.481, 244.683



32, 2.804, 285.619



16, 1.292, 244.660



25, 29.348, 269.372



56, 55.484, 273.108

Inverse Universe

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



32, 2.899, 338.975



42, 4.055, 339.054



34, 2.770, 104.368



15, 2.110, 339.035



21, 45.819, 351.129



51, 81.178, 353.377

Previews

White Background



This preview shows how the CIELCh color 33, 1.778, 244.630 looks on a white background.

Color Contrast Check

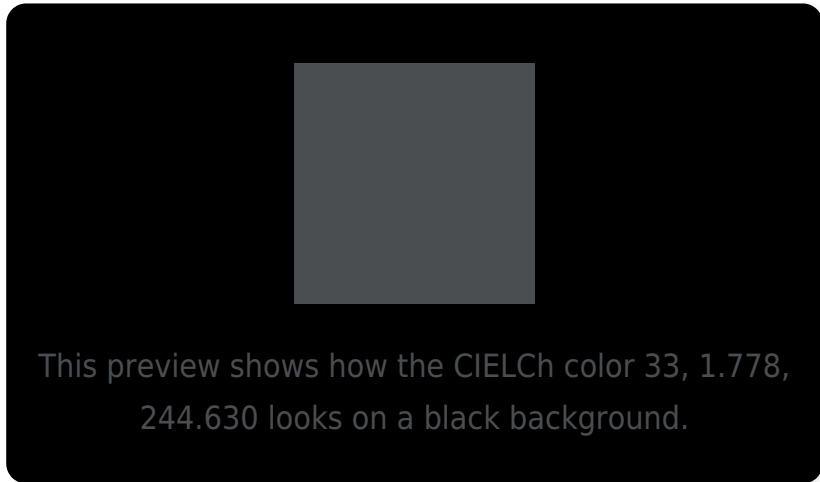
Large Text (above 18pt) WCAG AA ✓ Pass

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

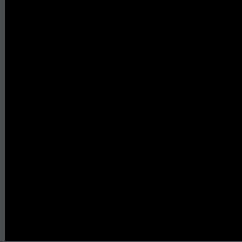
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

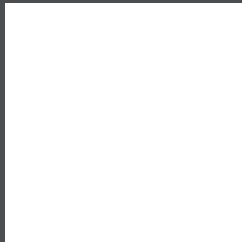
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 33, 1.778, 244.630

Background



This preview shows how black text looks on a background with the CIELCh color 33, 1.778, 244.630.

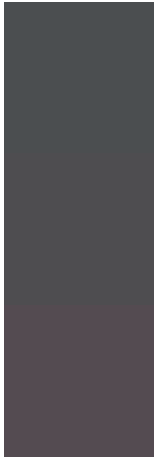


This preview shows how white text looks on a background with the CIELCh color 33, 1.778, 244.630.

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

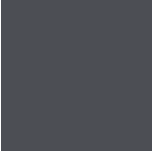
33, 1.778, 244.630

Protanopia

33, 1.949, 303.216

Deuteranopia

33, 5.446, 336.322



Tritanopia
33, 3.856, 278.329

Trichromacy



Original Color

33, 1.778, 244.630

Protanomaly

33, 1.896, 290.528

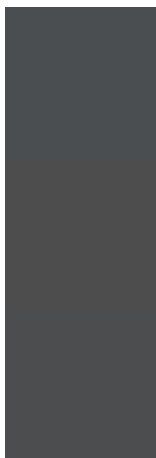
Deuteranomaly

33, 3.837, 324.713

Tritanomaly

33, 3.246, 275.744

Monochromacy



Original Color

33, 1.778, 244.630

Achromatopsia

33, 0.005, 296.813

Achromatomaly

33, 0.761, 255.947

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 1.778, 244.630 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(75, 78, 80)` looks like.

```
.text, #text, p{  
    color:rgb(75, 78, 80)  
}
```

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(75, 78, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 78, 80) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 1.778, 244.630 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(75, 78, 80) }
```

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

```
.border{ border-color:rgb(75, 78, 80) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 78, 80)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 78, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 78, 80);  
box-shadow:4px 4px 4px 4px rgb(75, 78, 80)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 1.778, 244.630 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 78, 80) }
```

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

```
.background{ background-color: rgb(75, 78,  
80) }
```

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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