

Converting Colors

CIELCh(33, 12.814, 212.150)

Have a look what the booklet for
CIELCh(33, 12.814, 212.150)
contains.

CIELCh(33, 12.814, 212.131)	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, 12.814, 212.131)

Conversions

Conversions Part 1

Format	Color
Hex	315358
RGB	49, 83, 88
RGB Percent	19%, 33%, 35%
CMY	0.8080, 0.6746, 0.6550
CMYK	0.44, 0.06, 0.00, 0.66
HSL	188°, 28%, 27%
HSV	188°, 44%, 34%
XYZ	6.1155, 7.5373, 10.3575
YIQ	73.4040, -21.8690, -5.6530

Conversions

Conversions Part 2

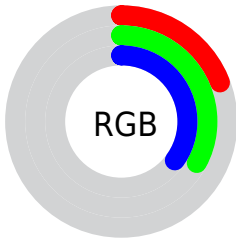
Format	Color
RYB	49, 67, 88
Decimal	3232600
CIELab	33.00, -10.85, -6.82
CIELCh	33, 12.814, 212.131
Yxy	7.5373, 0.2547, 0.3139
Android (android.graphics.Color)	4281422680 (0xFF315358)
YUV	73.4040, 7.1958, -21.4023
Hunter-Lab	27.4541, -8.2831, -3.1502




Details

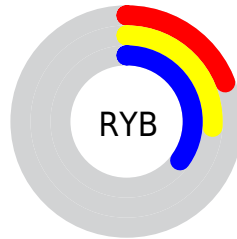
The CIELCh color **33, 12.814, 212.131** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **27, 17.373, 33.081**, and the grayscale version is **31, 0.005, 296.813**.




A 20% lighter version of the original color is **53, 12.844, 211.316**, and **13, 12.717, 213.427** is the 20% darker color. If you saturate the color by 10%, you get **32, 14.973, 212.651**, and if you desaturate by 10%, it is **34, 10.335, 211.785**.

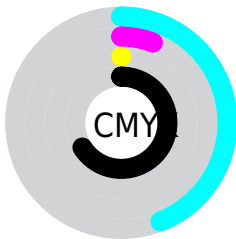
Distribution







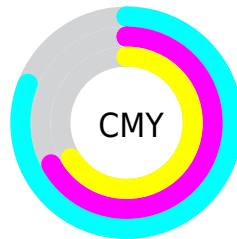
-  Red (19%)
-  Green (33%)
-  Blue (35%)






-  Red (19%)
-  Yellow (26%)
-  Blue (35%)



-  Cyan (44%)
-  Magenta (6%)
-  Yellow (0%)
-  Black (66%)





-  Cyan (81%)
-  Magenta (67%)
-  Yellow (66%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 12.814, 212.131 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, 12.814, 212.131 by changing the saturation by 10% instead.


 33, 12.814,
212.131


 33, 12.814,
212.131

 100, 12.814,
212.131


 23, 12.814,
212.131

 53, 12.814,
212.131


 13, 12.814,
212.131


 63, 12.814,
212.131

 3, 12.814, 212.131

 73, 12.814,
212.131

 0, 12.814, 212.131

 83, 12.814,
212.131

 93, 12.814,
212.131

■ 33, 12.814,
212.131

■ 33, 12.814,
212.131

■ 32, 14.973,
212.651

■ 34, 10.335,
211.785

■ 31, 16.774,
213.389

■ 35, 7.580, 211.593

■ 36, 4.595, 211.535

■ 31, 18.188,
214.383

■ 37, 1.423, 211.694

■ 30, 19.203,
215.674

■ 38, 1.896, 31.403

■ 39, 5.328, 31.652

■ 30, 19.899,
217.223

■ 40, 8.844, 31.865

■ 29, 20.290,
218.069

■ 42, 12.419, 32.099

■ 43, 16.032, 32.354

Harmonies

Complementary

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



33, 12.814, 212.131



27, 17.373, 33.081

Rectangle

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



33, 12.814, 212.131



33, 12.814, 262.131



33, 12.814, 32.131



33, 12.814, 82.131

Sweetspot

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



33, 12.814, 212.128



47, 5.201, 211.536



34, 27.183, 144.532



23, 3.653, 211.534



76, 0.009, 296.813



25, 0.004, 296.813

Same Dimension

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



33, 12.814, 212.128



42, 18.145, 212.678



27, 16.338, 273.983



17, 1.797, 211.571



36, 23.245, 218.693



76, 41.164, 220.414

Inverse Universe

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



26, 26.941, 330.592



33, 39.420, 331.175



32, 16.935, 81.509



16, 3.374, 328.586



23, 55.473, 333.769



54, 97.988, 334.196

Previews

White Background



This preview shows how the CIELCh color 33, 12.814, 212.131 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, 12.814, 212.131 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

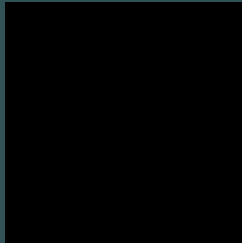
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 12.814, 212.131

Background



This preview shows how black text looks on a background with the CIELCh color 33, 12.814, 212.131.



This preview shows how white text looks on a background with the CIELCh color 33, 12.814, 212.131.

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

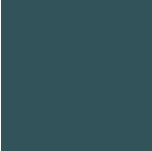
33, 12.814, 212.131

Protanopia

33, 4.417, 290.957

Deuteranopia

33, 9.653, 301.551



Tritanopia
33, 12.885, 215.016

Trichromacy



Original Color
33, 12.814, 212.131

Protanomaly
33, 6.064, 237.673

Deuteranomaly
33, 7.889, 261.167

Tritanomaly
33, 12.885, 215.016

Monochromacy



Original Color
33, 12.814, 212.131

Achromatopsia
31, 0.005, 296.813

Achromatomaly
32, 5.416, 205.421

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 12.814, 212.131 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(49, 83, 88)` looks like.

```
.text, #text, p{  
    color:rgb(49, 83, 88)  
}
```

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(49, 83, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 83, 88) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 12.814, 212.131 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(49, 83, 88) }
```

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

```
.border{ border-color:rgb(49, 83, 88) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 83, 88)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 83, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 83, 88);  
box-shadow:4px 4px 4px 4px rgb(49, 83, 88)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 12.814, 212.131 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 83, 88) }
```

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

```
.background{ background-color: rgb(49, 83,  
88) }
```

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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