

Converting Colors

CIELCh(33, 31.670, 299.186)

Have a look what the booklet for
CIELCh(33, 31.670, 299.186)
contains.

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Color

CIELCh(33, 31.682, 299.647)

Conversions

Conversions Part 1

Format	Color
Hex	4E4779
RGB	78, 71, 121
RGB Percent	31%, 28%, 47%
CMY	0.6935, 0.7210, 0.5248
CMYK	0.35, 0.41, 0.00, 0.52
HSL	248°, 26%, 38%
HSV	248°, 41%, 48%
XYZ	8.8799, 7.5373, 19.1304
YIQ	78.7930, -11.8780, 17.0340

Conversions

Conversions Part 2

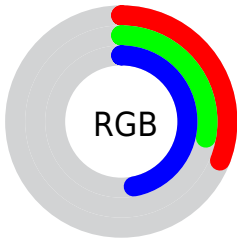
Format	Color
R_{YB}	78, 71, 121
Decimal	5130105
CIE Lab	33.00, 15.67, -27.53
CIE LCh	33, 31.682, 299.647
Yxy	7.5373, 0.2498, 0.2120
Android (android.graphics.Color)	4283320185 (0xFF4E4779)
YUV	78.7930, 20.8081, -0.6955
Hunter-Lab	27.4541, 9.6904, -22.0963

Details

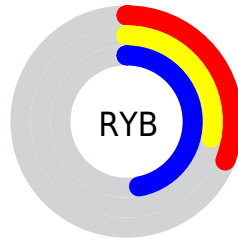
The CIELCh color **33, 31.682, 299.647** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **49, 28.748, 112.696**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 32.156, 300.002**, and **13, 31.382, 299.467** is the 20% darker color. If you saturate the color by 10%, you get **29, 40.063, 300.958**, and if you desaturate by 10%, it is **37, 23.556, 298.473**.

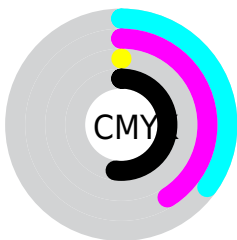
Distribution



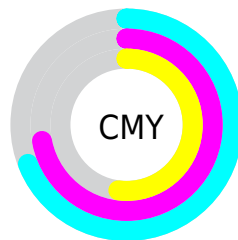
- Red (31%)
- Green (28%)
- Blue (47%)



- Red (31%)
- Yellow (28%)
- Blue (47%)



- Cyan (35%)
- Magenta (41%)
- Yellow (0%)
- Black (52%)





- Cyan (69%)
- Magenta (72%)
- Yellow (52%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 31.682, 299.647 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, 31.682, 299.647 by changing the saturation by 10% instead.


 33, 31.682,
299.647


 33, 31.682,
299.647

 100, 31.682,
299.647


 23, 31.682,
299.647

 53, 31.682,
299.647


 13, 31.682,
299.647


 63, 31.682,
299.647

 3, 31.682, 299.647

 73, 31.682,
299.647

 0, 31.682, 299.647

 83, 31.682,
299.647

 93, 31.682,
299.647

■ 33, 31.682,
299.647

■ 33, 31.682,
299.647

■ 29, 40.063,
300.958

■ 37, 23.556,
298.473

■ 25, 48.600,
302.375

■ 42, 15.722,
297.442

■ 21, 57.043,
303.822

■ 46, 8.178, 296.545

■ 17, 64.897,
305.156

■ 50, 0.915, 295.776

■ 55, 6.085, 115.096

■ 15, 71.344,
306.168

■ 59, 12.838,
114.518

■ 13, 76.267,
307.030

■ 63, 19.360,
114.019

■ 67, 25.667,
113.588

■ 71, 31.771,
113.214

Harmonies

Complementary

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



33, 31.682, 299.647



49, 28.748, 112.696

Rectangle

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



33, 31.682, 299.647



33, 31.682, 349.647



33, 31.682, 119.647



33, 31.682, 169.647

Sweetspot

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



33, 31.681, 299.647



59, 10.840, 296.631



45, 15.572, 212.727



29, 7.164, 296.713



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



33, 31.681, 299.647



38, 48.566, 300.953



36, 33.174, 315.307



23, 4.103, 296.364



13, 77.991, 307.011



33, 131.851, 306.733

Inverse Universe

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



38, 32.445, 330.925



46, 48.108, 331.520



47, 31.932, 131.721



24, 4.476, 329.010



28, 61.270, 334.485



58, 102.560, 334.876

Previews

White Background



This preview shows how the CIELCh color 33, 31.682, 299.647 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, 31.682, 299.647 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, 31.682, 299.647

Background



This preview shows how black text looks on a background with the CIELCh color 33, 31.682, 299.647.

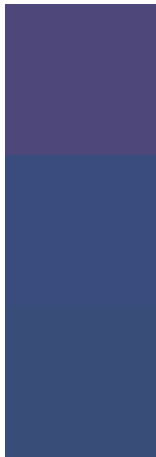


This preview shows how white text looks on a background with the CIELCh color 33, 31.682, 299.647.

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, 31.682, 299.647

Protanopia

33, 31.659, 285.447

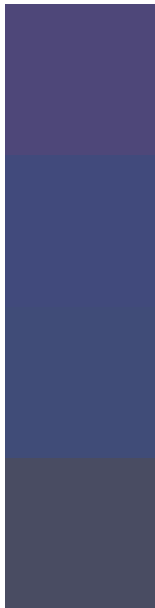
Deuteranopia

33, 26.944, 279.742



Tritanopia
33, 5.202, 245.862

Trichromacy



Original Color
33, 31.682, 299.647

Protanomaly
33, 31.520, 290.219

Deuteranomaly
33, 27.798, 286.730

Tritanomaly
33, 13.908, 287.828

Monochromacy



Original Color
33, 31.682, 299.647

Achromatopsia
34, 0.005, 296.813

Achromatomaly
33, 11.443, 298.142

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 31.682, 299.647 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, 71, 121)` looks like.

```
.text, #text, p{  
    color:rgb(78, 71, 121)  
}
```

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, 71, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 71, 121) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 31.682, 299.647 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, 71, 121) }
```

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

```
.border{ border-color:rgb(78, 71, 121) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 71, 121)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 71, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 71, 121);  
box-shadow:4px 4px 4px 4px rgb(78, 71,  
121) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 31.682, 299.647 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 71, 121) }
```

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

```
.background{ background-color: rgb(78, 71,  
121) }
```

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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