

Converting Colors

CIELCh(27, 89.863, 333.362)

Have a look what the booklet for
CIELCh(27, 89.863, 333.362)
contains.

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Color

CIELCh(33, 68.980, 333.760)

Conversions

Conversions Part 1

Format	Color
Hex	91007F
RGB	145, 0, 127
RGB Percent	57%, 0%, 50%
CMY	0.4317, 1.0000, 0.5023
CMYK	0.00, 1.00, 0.12, 0.43
HSL	307°, 100%, 28%
HSV	307°, 100%, 57%
XYZ	15.4843, 7.5373, 20.6894
YIQ	57.8330, 45.6530, 70.2370

Conversions

Conversions Part 2

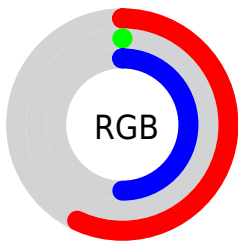
Format	Color
R_{YB}	145, 0, 127
Decimal	9502847
CIE _{Lab}	33.00, 61.87, -30.50
CIE _{LCh}	33, 68.980, 333.760
Yxy	7.5373, 0.3542, 0.1724
Android (android.graphics.Color)	4287692927 (0xFF91007F)
YUV	57.8330, 34.0993, 76.4455
Hunter-Lab	27.4541, 52.6304, -25.4631

Details

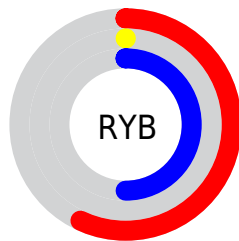
The CIELCh color **33, 68.980, 333.760** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **52, 75.892, 137.473**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **53, 68.819, 333.711**, and **19, 48.640, 334.424** is the 20% darker color. If you saturate the color by 10%, you get **33, 68.948, 333.761**, and if you desaturate by 10%, it is **34, 67.281, 333.189**.

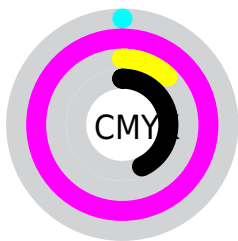
Distribution



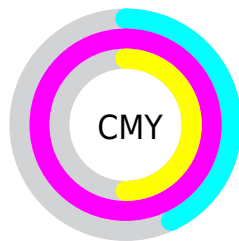
- Red (57%)
- Green (0%)
- Blue (50%)



- Red (57%)
- Yellow (0%)
- Blue (50%)



- Cyan (0%)
- Magenta (100%)
- Yellow (12%)
- Black (43%)





- Cyan (43%)
- Magenta (100%)
- Yellow (50%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 68.980, 333.760 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, 68.980, 333.760 by changing the saturation by 10% instead.


 33, 68.980,
333.760


 33, 68.980,
333.760

 100, 68.980,
333.760


 23, 68.980,
333.760

 53, 68.980,
333.760


 13, 68.980,
333.760


 63, 68.980,
333.760

 3, 68.980, 333.760

 73, 68.980,
333.760

 0, 68.980, 333.760

 83, 68.980,
333.760

 93, 68.980,
333.760

■ 33, 68.980,
333.760

■ 33, 68.980,
333.760

■ 33, 68.948,
333.761

■ 34, 67.281,
333.189

■ 35, 64.240,
332.627

■ 37, 59.393,
332.069

■ 39, 52.972,
331.504

■ 42, 45.325,
330.927

■ 45, 36.826,
330.340

■ 49, 27.811,
329.748

■ 52, 18.548,

329.155

■ 56, 9.235, 328.562

Harmonies

Complementary

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



33, 68.980, 333.760



52, 75.892, 137.473

Rectangle

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



33, 68.980, 333.760



33, 68.980, 23.760



33, 68.980, 153.760



33, 68.980, 203.760

Sweetspot

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



33, 68.948, 333.761



62, 34.487, 329.785



16, 87.129, 306.788



30, 23.409, 330.007



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



33, 68.948, 333.761



44, 83.602, 333.893



30, 55.715, 12.148



28, 5.149, 328.512



31, 65.579, 333.721



1, 3.458, 328.014

Inverse Universe

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



33, 68.948, 333.761



44, 83.602, 333.893



53, 50.903, 156.325



28, 5.149, 328.512



31, 65.579, 333.721



1, 3.458, 328.014

Previews

White Background



This preview shows how the CIELCh color 33, 68.980, 333.760 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, 68.980, 333.760 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

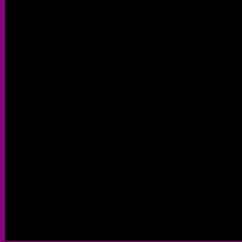
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 68.980, 333.760

Background



This preview shows how black text looks on a background with the CIELCh color 33, 68.980, 333.760.



This preview shows how white text looks on a background with the CIELCh color 33, 68.980, 333.760.

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, 68.980, 333.760

Protanopia

34, 54.560, 286.234

Deuteranopia

34, 24.733, 281.849



Tritanopia
34, 41.860, 25.618

Trichromacy



Original Color
33, 68.980, 333.760



Protanomaly
27, 64.303, 301.291



Deuteranomaly
30, 46.723, 314.655



Tritanomaly
32, 48.569, 358.409

Monochromacy



Original Color
33, 68.980, 333.760



Achromatopsia
24, 0.004, 296.813



Achromatomaly
24, 35.395, 331.555

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 68.980, 333.760 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(145, 0, 127)` looks like.

```
.text, #text, p{  
    color:rgb(145, 0, 127)  
}
```

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(145, 0, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 0, 127) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 68.980, 333.760 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(145, 0, 127) }
```

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

```
.border{ border-color:rgb(145, 0, 127) }
```

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

Here you see how a box with a 4 pixel rgb(145, 0, 127) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 0, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 0, 127);  
box-shadow:4px 4px 4px 4px rgb(145, 0,  
127) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 68.980, 333.760 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 0, 127) }
```

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

```
.background{ background-color: rgb(145, 0,  
127) }
```

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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