

Converting Colors

CIELCh(33, 84.118, 321.353)

Have a look what the booklet for
CIELCh(33, 84.118, 321.353)
contains.

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Color

CIELCh(33, 83.611, 321.511)

Conversions

Conversions Part 1

Format	Color
Hex	8500A2
RGB	133, 0, 162
RGB Percent	52%, 0%, 64%
CMY	0.4798, 1.0000, 0.3660
CMYK	0.18, 1.00, 0.00, 0.37
HSL	289°, 100%, 32%
HSV	289°, 100%, 63%
XYZ	16.1001, 7.5373, 34.6300
YIQ	58.2350, 27.2660, 78.5780

Conversions

Conversions Part 2

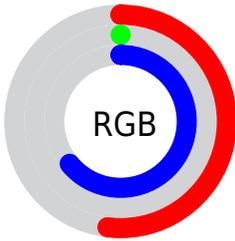
Format	Color
R_{YB}	133, 0, 162
Decimal	8716450
CIE _{Lab}	33.00, 65.44, -52.04
CIE _{LCh}	33, 83.611, 321.511
Yxy	7.5373, 0.2763, 0.1294
Android (android.graphics.Color)	4286906530 (0xFF8500A2)
YUV	58.2350, 51.1561, 65.5689
Hunter-Lab	27.4541, 56.6341, -55.5692

Details

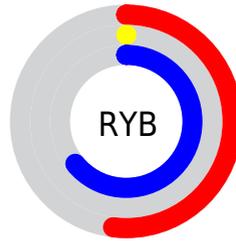
The CIELCh color **33, 83.611, 321.511** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **58, 83.785, 134.795**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **53, 83.581, 321.391**, and **19, 63.803, 318.008** is the 20% darker color. If you saturate the color by 10%, you get **33, 83.486, 321.496**, and if you desaturate by 10%, it is **34, 80.678, 321.834**.

Distribution



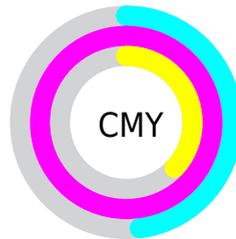
- Red (52%)
- Green (0%)
- Blue (64%)



- Red (52%)
- Yellow (0%)
- Blue (64%)



- Cyan (18%)
- Magenta (100%)
- Yellow (0%)
- Black (37%)



- Cyan (48%)
- Magenta (100%)
- Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 83.611, 321.511 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, 83.611, 321.511 by changing the saturation by 10% instead.

 33, 83.611,
321.511

 33, 83.611,
321.511

 100, 83.611,
321.511

 23, 83.611,
321.511

 53, 83.611,
321.511

 13, 83.611,
321.511

 63, 83.611,
321.511

 3, 83.611, 321.511

 73, 83.611,
321.511

 0, 83.611, 321.511

 83, 83.611,
321.511

 93, 83.611,
321.511

■ 33, 83.611,
321.511

■ 33, 83.611,
321.511

■ 33, 83.486,
321.496

■ 34, 80.678,
321.834

■ 36, 76.173,
322.010

■ 39, 69.656,
321.993

■ 42, 61.500,
321.819

■ 45, 52.165,
321.529

■ 49, 42.085,
321.160

■ 53, 31.609,
320.742

■ 57, 20.996,

320.299

■ 62, 10.424,
319.844

Harmonies

Complementary

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



33, 83.611, 321.511



58, 83.785, 134.795

Rectangle

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



33, 83.611, 321.511



33, 83.611, 11.511



33, 83.611, 141.511



33, 83.611, 191.511

Sweetspot

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



33, 83.486, 321.496



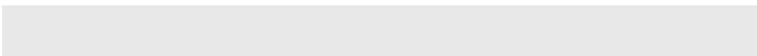
67, 38.979, 320.766



22, 83.987, 302.712



33, 26.540, 320.934



92, 0.011, 296.813



44, 0.006, 296.813

Same Dimension

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



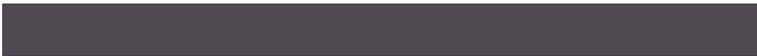
33, 83.486, 321.496



43, 101.126, 321.379



36, 65.092, 345.893



32, 5.939, 319.811



29, 77.210, 321.553



1, 9.056, 318.073

Inverse Universe

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



33, 66.626, 30.366



44, 81.474, 31.431



58, 74.144, 141.885



32, 3.727, 5.597



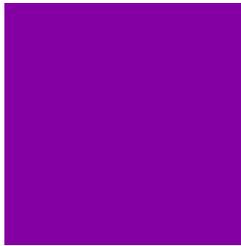
30, 61.338, 29.837



1, 5.631, 6.145

Previews

White Background



This preview shows how the CIELCh color 33, 83.611, 321.511 looks on a white background.

Color Contrast Check

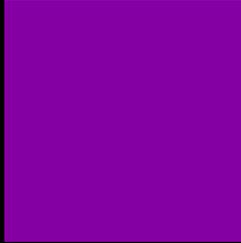
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIELCh color 33, 83.611, 321.511 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

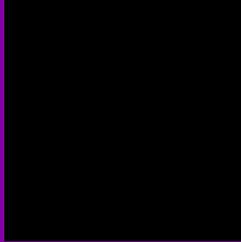
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

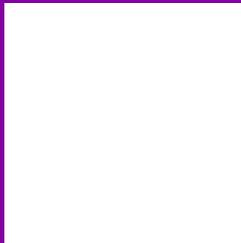
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 33, 83.611, 321.511

Background



This preview shows how black text looks on a background with the CIELCh color 33, 83.611, 321.511.



This preview shows how white text looks on a background with the CIELCh color 33, 83.611, 321.511.

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, 83.611, 321.511

Protanopia

34, 53.984, 285.950

Deuteranopia

34, 40.266, 275.294



Tritanopia
34, 26.549, 17.743

Trichromacy



Original Color
33, 83.611, 321.511



Protanomaly
28, 71.300, 301.147



Deuteranomaly
28, 62.531, 299.751



Tritanomaly
31, 47.005, 338.276

Monochromacy



Original Color
33, 83.611, 321.511



Achromatopsia
24, 0.004, 296.813



Achromatomaly
24, 41.206, 321.559

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 83.611, 321.511 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(133, 0, 162)` looks like.

```
.text, #text, p{  
    color:rgb(133, 0, 162)  
}
```

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(133, 0, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 0, 162) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 83.611, 321.511 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(133, 0, 162) }
```

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

```
.border{ border-color:rgb(133, 0, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 0, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 0, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 0, 162);  
box-shadow:4px 4px 4px 4px rgb(133, 0,  
162) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 83.611, 321.511 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 0, 162) }
```

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

```
.background{ background-color: rgb(133, 0,  
162) }
```

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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