

Converting Colors

CIELCh(31, 71.797, 328.233)

Have a look what the booklet for
CIELCh(31, 71.797, 328.233)
contains.

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Color

CIELCh(31, 71.271, 328.233)

Conversions

Conversions Part 1

Format	Color
Hex	850085
RGB	133, 0, 133
RGB Percent	52%, 0%, 52%
CMY	0.4792, 1.0000, 0.4791
CMYK	0.00, 1.00, 0.00, 0.48
HSL	300°, 100%, 26%
HSV	300°, 100%, 52%
XYZ	13.8608, 6.6515, 22.6800
YIQ	54.9290, 36.5750, 69.5590

Conversions

Conversions Part 2

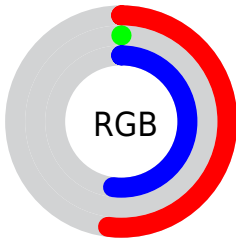
Format	Color
R_{YB}	133, 0, 133
Decimal	8716421
CIE _{Lab}	31.00, 60.59, -37.52
CIE _{LCh}	31, 71.271, 328.233
Yxy	6.6515, 0.3209, 0.1540
Android (android.graphics.Color)	4286906501 (0xFF850085)
YUV	54.9290, 38.4890, 68.4683
Hunter-Lab	25.7905, 50.7996, -34.0859

Details

The CIELCh color **31, 71.271, 328.233** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **48, 73.797, 136.016**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 71.228, 328.264**, and **17, 51.226, 326.491** is the 20% darker color. If you saturate the color by 10%, you get **31, 71.203, 328.230**, and if you desaturate by 10%, it is **32, 68.910, 328.120**.

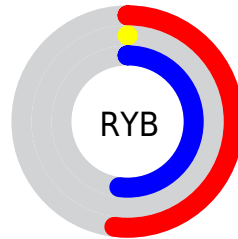
Distribution



Red (52%)

Green (0%)

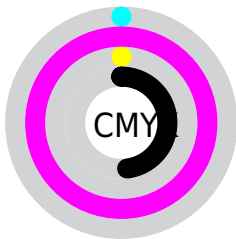
Blue (52%)



Red (52%)

Yellow (0%)

Blue (52%)

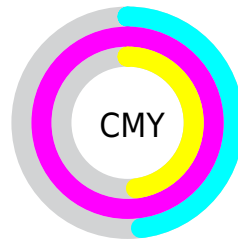


Cyan (0%)

Magenta (100%)

Yellow (0%)

Black (48%)



Cyan (48%)


Magenta (100%)


Yellow (48%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 71.271, 328.233 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 31, 71.271, 328.233 by changing the saturation by 10% instead.


 31, 71.271,
328.233


 31, 71.271,
328.233

 100, 71.271,
328.233

 21, 71.271,
328.233

 51, 71.271,
328.233


 11, 71.271,
328.233


 61, 71.271,
328.233

 1, 71.271, 328.233

 71, 71.271,
328.233

 0, 71.271, 328.233

 81, 71.271,
328.233

 91, 71.271,
328.233

■ 31, 71.271,
328.233

■ 31, 71.271,
328.233

■ 31, 71.203,
328.230

■ 32, 68.910,
328.120

■ 33, 65.432,
327.950

■ 34, 60.290,
327.696

■ 36, 53.676,
327.361

■ 39, 45.897,
326.958

■ 42, 37.292,
326.501

■ 45, 28.174,
326.005

■ 48, 18.801,

325.485

■ 52, 9.366, 324.947

Harmonies

Complementary

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



31, 71.271, 328.233



48, 73.797, 136.016

Rectangle

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



31, 71.271, 328.233



31, 71.271, 18.233



31, 71.271, 148.233



31, 71.271, 198.233

Sweetspot

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



31, 71.203, 328.230



58, 35.020, 326.040



14, 81.555, 305.989



28, 23.744, 326.220



86, 0.010, 296.813



37, 0.005, 296.813

Same Dimension

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



31, 71.203, 328.230



41, 86.549, 328.230



28, 52.533, 359.212



26, 5.272, 324.899



30, 70.125, 328.230



0, 1.256, 324.437

Inverse Universe

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



27, 63.216, 38.669



36, 78.232, 39.925



48, 55.022, 149.004



26, 3.050, 19.874



26, 62.117, 38.505



0, 0.707, 19.399

Previews

White Background



This preview shows how the CIELCh color 31, 71.271, 328.233 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 31, 71.271, 328.233 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

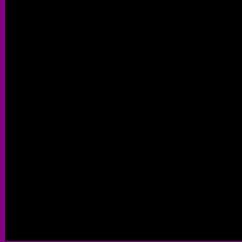
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 71.271, 328.233

Background



This preview shows how black text looks on a background with the CIELCh color 31, 71.271, 328.233.



This preview shows how white text looks on a background with the CIELCh color 31, 71.271, 328.233.

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

31, 71.271, 328.233

Protanopia

32, 51.947, 285.871

Deuteranopia

33, 31.053, 278.250



Tritanopia
32, 34.296, 22.438

Trichromacy



Original Color
31, 71.271, 328.233



Protanomaly
26, 64.682, 301.213



Deuteranomaly
28, 51.120, 307.929



Tritanomaly
30, 45.264, 350.012

Monochromacy



Original Color
31, 71.271, 328.233



Achromatopsia
23, 0.004, 296.813



Achromatomaly
23, 35.656, 327.157

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 71.271, 328.233 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, 133)` looks like.

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

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, 133) colored shadow looks like.

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

Border

The CSS property to change the border of an element to CIELCh 31, 71.271, 328.233 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, 133) }
```

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

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

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, 133) colored shadow looks like.

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

Background

The CSS property to change the background color of an element to CIELCh 31, 71.271, 328.233 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, 133) }
```

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

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

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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