

Converting Colors

CIELCh(18, 87.943, 305.222)

Have a look what the booklet for
CIELCh(18, 87.943, 305.222)
contains.

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Color

CIELCh(18, 87.891, 305.205)

Conversions

Conversions Part 1

Format	Color
Hex	000B99
RGB	0, 11, 153
RGB Percent	0%, 4%, 60%
CMY	1.0000, 0.9580, 0.4010
CMYK	1.00, 0.93, 0.00, 0.40
HSL	236°, 100%, 30%
HSV	236°, 100%, 60%
XYZ	5.8330, 2.5180, 30.2038
YIQ	23.8990, -52.1380, 41.8300

Conversions

Conversions Part 2

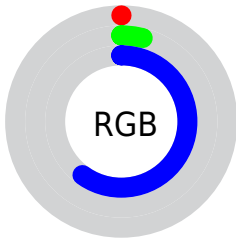
Format	Color
RYB	0, 10, 153
Decimal	2969
CIELab	18.00, 50.67, -71.82
CIELCh	18, 87.891, 305.205
Yxy	2.5180, 0.1513, 0.0653
Android (android.graphics.Color)	4278193049 (0xFF000B99)
YUV	23.8990, 63.6468, -20.9594
Hunter-Lab	15.8683, 37.8443, -101.7449

Details

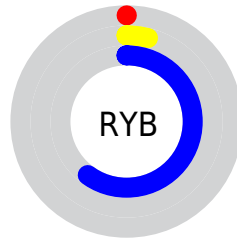
The CIELCh color **18, 87.891, 305.205** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **58, 62.892, 98.256**, and the grayscale version is **8, 0.002, 296.812**.

A 20% lighter version of the original color is **38, 88.189, 305.259**, and **8, 67.340, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **18, 87.864, 305.231**, and if you desaturate by 10%, it is **20, 81.531, 303.708**.

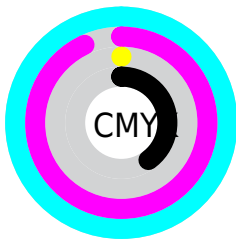
Distribution



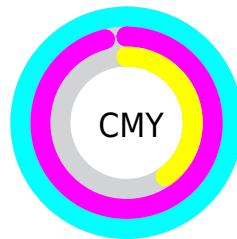
- Red (0%)
- Green (4%)
- Blue (60%)



- Red (0%)
- Yellow (4%)
- Blue (60%)



- Cyan (100%)
- Magenta (93%)
- Yellow (0%)
- Black (40%)





- Cyan (100%)
- Magenta (96%)
- Yellow (40%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 87.891, 305.205 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 18, 87.891, 305.205 by changing the saturation by 10% instead.

 18, 87.891,
305.205


 18, 87.891,
305.205


 100, 87.891,
305.205


 8, 87.891, 305.205


 38, 87.891,
305.205

 0, 87.891, 305.205

 48, 87.891,
305.205


 58, 87.891,
305.205


 68, 87.891,
305.205

 78, 87.891,
305.205


 88, 87.891,


305.205


 98, 87.891,
305.205


 18, 87.891,
305.205


 18, 87.891,
305.205


 18, 87.864,
305.231

 20, 81.531,
303.708

 24, 72.968,
301.562

 28, 63.304,
299.171

 33, 53.388,
296.797

 38, 43.643,
294.601

■ 43, 34.225,
292.652

■ 48, 25.169,
290.961

■ 53, 16.463,
289.512

■ 58, 8.085, 288.277

Harmonies

Complementary

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



18, 87.891, 305.205



58, 62.892, 98.256

Rectangle

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



18, 87.891, 305.205



18, 87.891, 355.205



18, 87.891, 125.205



18, 87.891, 175.205

Sweetspot

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



18, 87.864, 305.231



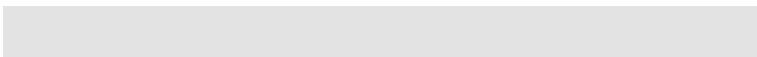
61, 31.247, 291.055



57, 36.818, 184.602



29, 21.424, 291.682



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



18, 87.864, 305.231



25, 107.849, 305.496



21, 86.479, 310.331



30, 4.569, 288.190



16, 82.235, 305.121



0, 4.872, 287.263

Inverse Universe

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



31, 68.283, 36.636



41, 83.846, 37.436



57, 72.250, 124.774



30, 3.449, 14.224



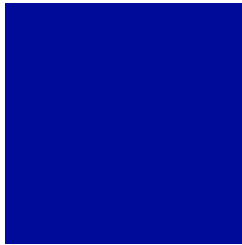
28, 63.819, 36.201



1, 3.618, 13.690

Previews

White Background



This preview shows how the CIELCh color 18, 87.891, 305.205 looks on a white background.

Color Contrast Check

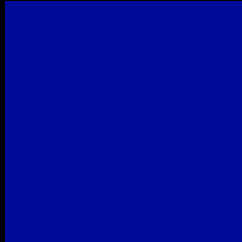
Large Text (above 18pt) WCAG AA ✓ Pass

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 18, 87.891, 305.205 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

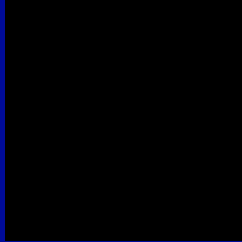
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 87.891, 305.205

Background



This preview shows how black text looks on a background with the CIELCh color 18, 87.891, 305.205.



This preview shows how white text looks on a background with the CIELCh color 18, 87.891, 305.205.

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

18, 87.891, 305.205

Protanopia

19, 34.603, 283.416

Deuteranopia

19, 23.763, 267.403



Tritanopia
19, 15.971, 201.489

Trichromacy



Original Color
18, 87.891, 305.205

Protanomaly
17, 56.413, 297.684

Deuteranomaly
16, 49.548, 295.369

Tritanomaly
16, 37.119, 288.443

Monochromacy



Original Color
18, 87.891, 305.205

Achromatopsia
8, 0.002, 296.813

Achromatomaly
9, 37.972, 299.586

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 87.891, 305.205 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(0, 11, 153)` looks like.

```
.text, #text, p{  
    color:rgb(0, 11, 153)  
}
```

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(0, 11, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 11, 153) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 87.891, 305.205 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(0, 11, 153) }
```

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

```
.border{ border-color:rgb(0, 11, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 11, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 11, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 11, 153);  
box-shadow:4px 4px 4px 4px rgb(0, 11, 153)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 87.891, 305.205 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 11, 153) }
```

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

```
.background{ background-color: rgb(0, 11,  
153) }
```

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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