

Converting Colors

CIELCh(11, 99.429, 305.773)

Have a look what the booklet for
CIELCh(11, 99.429, 305.773)
contains.

CIELCh(16, 89.195, 306.287)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(16, 89.195, 306.287)

Conversions

Conversions Part 1

Format	Color
Hex	000093
RGB	0, 0, 147
RGB Percent	0%, 0%, 58%
CMY	1.0000, 1.0000, 0.4217
CMYK	1.00, 1.00, 0.00, 0.42
HSL	240°, 100%, 29%
HSV	240°, 100%, 58%
XYZ	5.2749, 2.0993, 27.9248
YIQ	16.7580, -47.1870, 45.7170

Conversions

Conversions Part 2

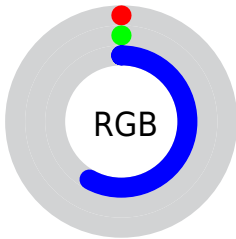
Format	Color
R_{YB}	0, 0, 147
Decimal	147
CIE _{Lab}	16.00, 52.79, -71.90
CIE _{LCh}	16, 89.195, 306.287
Yxy	2.0993, 0.1494, 0.0595
Android (android.graphics.Color)	4278190227 (0xFF000093)
YUV	16.7580, 64.2093, -14.6968
Hunter-Lab	14.4890, 39.6292, -104.1282

Details

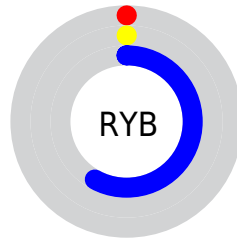
The CIELCh color **16, 89.195, 306.287** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **59, 64.426, 102.852**, and the grayscale version is **5, 0.001, 296.812**.

A 20% lighter version of the original color is **36, 88.425, 306.309**, and **7, 64.918, 306.260** is the 20% darker color. If you saturate the color by 10%, you get **16, 88.961, 306.287**, and if you desaturate by 10%, it is **18, 83.462, 305.126**.

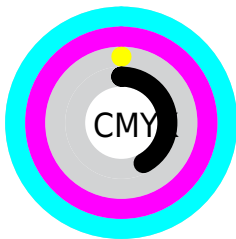
Distribution



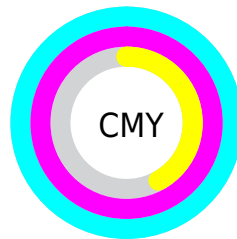
- Red (0%)
- Green (0%)
- Blue (58%)



- Red (0%)
- Yellow (0%)
- Blue (58%)



- Cyan (100%)
- Magenta (100%)
- Yellow (0%)
- Black (42%)





- Cyan (100%)
- Magenta (100%)
- Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 89.195, 306.287 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 16, 89.195, 306.287 by changing the saturation by 10% instead.

 16, 89.195,
306.287

 16, 89.195,
306.287

 100, 89.195,
306.287


 6, 89.195, 306.287


 36, 89.195,
306.287

 0, 89.195, 306.287

 46, 89.195,
306.287


 56, 89.195,
306.287


 66, 89.195,
306.287

 76, 89.195,
306.287


 86, 89.195,

306.287


 96, 89.195,
306.287


 16, 89.195,
306.287


 16, 89.195,
306.287


 16, 88.961,
306.287

 18, 83.462,
305.126

 21, 75.815,
303.484

 25, 66.291,
301.429

 30, 56.083,
299.269

 35, 45.872,
297.212

■ 40, 35.948,
295.362

■ 45, 26.402,
293.749

■ 51, 17.244,
292.365

■ 56, 8.455, 291.188

Harmonies

Complementary

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



16, 89.195, 306.287



59, 64.426, 102.852

Rectangle

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



16, 89.195, 306.287



16, 89.195, 356.287



16, 89.195, 126.287



16, 89.195, 176.287

Sweetspot

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



16, 88.961, 306.287



58, 32.678, 293.840



55, 33.317, 196.386



28, 22.651, 294.436



89, 0.011, 296.813



41, 0.006, 296.813

Same Dimension

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



16, 88.961, 306.287



23, 107.781, 306.287



22, 82.801, 312.099



28, 4.780, 291.103



15, 84.629, 306.287



0, 4.113, 290.178

Inverse Universe

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



35, 76.830, 328.233



45, 93.083, 328.233



55, 72.318, 127.751



29, 5.775, 324.910



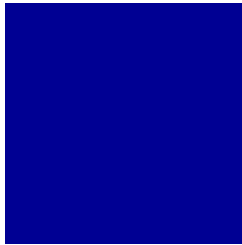
32, 73.088, 328.233



1, 5.023, 324.439

Previews

White Background



This preview shows how the CIE LCh color 16, 89.195, 306.287 looks on a white background.

Color Contrast Check

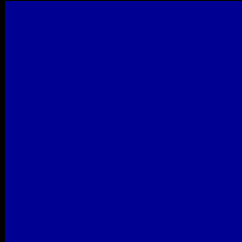
Large Text (above 18pt) WCAG AA ✓ Pass

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 16, 89.195, 306.287 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

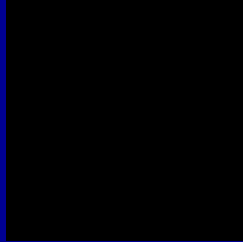
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 89.195, 306.287

Background



This preview shows how black text looks on a background with the CIELCh color 16, 89.195, 306.287.



This preview shows how white text looks on a background with the CIELCh color 16, 89.195, 306.287.

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


16, 88.754, 306.287

Protanopia

18, 32.840, 282.671

Deuteranopia

18, 22.616, 266.211



Tritanopia
18, 15.574, 201.652

Trichromacy



Original Color
16, 88.754, 306.287

Protanomaly
15, 57.619, 299.438

Deuteranomaly
15, 50.725, 297.163

Tritanomaly
14, 38.903, 291.392

Monochromacy



Original Color
16, 88.754, 306.287

Achromatopsia
5, 0.002, 296.812

Achromatomaly
6, 38.841, 301.700

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 89.195, 306.287 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, 0, 147)` looks like.

```
.text, #text, p{  
    color:rgb(0, 0, 147)  
}
```

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, 0, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 0, 147) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 89.195, 306.287 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, 0, 147) }
```

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

```
.border{ border-color:rgb(0, 0, 147) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 0, 147)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 0, 147); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 0, 147); box-shadow:4px  
4px 4px 4px rgb(0, 0, 147) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 89.195, 306.287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 0, 147) }
```

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

```
.background{ background-color: rgb(0, 0,  
147) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor