

Converting Colors

CIELCh(16, 86.465, 306.594)

Have a look what the booklet for
CIELCh(16, 86.465, 306.594)
contains.

CIELCh(16, 86.560, 306.545)	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, 86.560, 306.545)

Conversions

Conversions Part 1

Format	Color
Hex	0C0190
RGB	12, 1, 144
RGB Percent	5%, 0%, 56%
CMY	0.9526, 0.9971, 0.4364
CMYK	0.92, 0.99, 0.00, 0.44
HSL	245°, 99%, 28%
HSV	245°, 99%, 56%
XYZ	5.1722, 2.0993, 26.4006
YIQ	20.5910, -39.3470, 46.8050

Conversions

Conversions Part 2

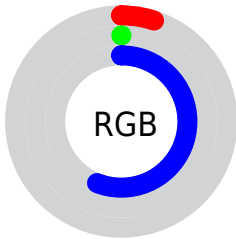
Format	Color
R_{YB}	12, 1, 144
Decimal	786832
CIE Lab	16.00, 51.54, -69.54
CIE LCh	16, 86.560, 306.545
Yxy	2.0993, 0.1536, 0.0623
Android (android.graphics.Color)	4278976912 (0xFF0C0190)
YUV	20.5910, 60.8406, -7.5343
Hunter-Lab	14.4890, 38.3641, -97.8909

Details

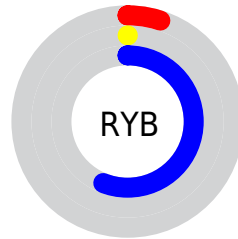
The CIELCh color **16, 86.560, 306.545** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **57, 63.384, 107.629**, and the grayscale version is **6, 0.002, 296.812**.

A 20% lighter version of the original color is **36, 86.238, 306.489**, and **7, 63.349, 306.184** is the 20% darker color. If you saturate the color by 10%, you get **16, 86.849, 306.606**, and if you desaturate by 10%, it is **18, 80.990, 305.573**.

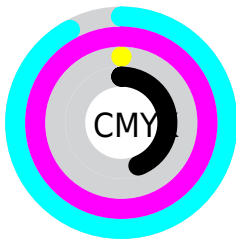
Distribution



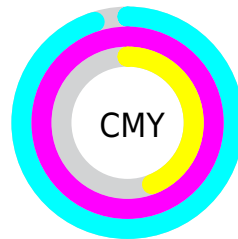
- Red (5%)
- Green (0%)
- Blue (56%)



- Red (5%)
- Yellow (0%)
- Blue (56%)



- Cyan (92%)
- Magenta (99%)
- Yellow (0%)
- Black (44%)





- Cyan (95%)
- Magenta (100%)
- Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 86.560, 306.545 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, 86.560, 306.545 by changing the saturation by 10% instead.

 16, 86.560,
306.545


 16, 86.560,
306.545


 100, 86.560,
306.545


 6, 86.560, 306.545


 36, 86.560,
306.545

 0, 86.560, 306.545

 46, 86.560,
306.545


 56, 86.560,
306.545


 66, 86.560,
306.545


 76, 86.560,
306.545


 86, 86.560,


306.545


 96, 86.560,
306.545


 16, 86.560,
306.545

 16, 86.560,
306.545

 16, 86.849,
306.606

 18, 80.990,
305.573

 21, 73.388,
304.258

 25, 64.139,
302.600

 30, 54.273,
300.848

 35, 44.381,
299.168

■ 40, 34.730,
297.642

■ 45, 25.419,
296.296

■ 50, 16.468,
295.129

■ 55, 7.866, 294.126

Harmonies

Complementary

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



16, 86.560, 306.545



57, 63.384, 107.629

Rectangle

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



16, 86.560, 306.545



16, 86.560, 356.545



16, 86.560, 126.545



16, 86.560, 176.545

Sweetspot

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



16, 86.562, 306.546



57, 32.008, 296.439



51, 30.039, 207.434



27, 22.178, 296.934



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



16, 86.562, 306.546



22, 105.217, 306.530



23, 79.888, 313.760



28, 4.652, 294.096



15, 83.029, 306.629



0, 3.092, 293.301

Inverse Universe

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



33, 70.834, 331.576



43, 85.714, 331.671



53, 72.246, 129.730



28, 5.312, 327.139



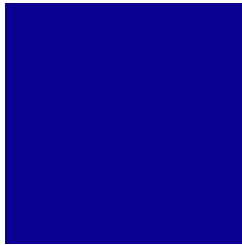
31, 67.854, 331.575



1, 3.568, 326.655

Previews

White Background



This preview shows how the CIE LCh color 16, 86.560, 306.545 looks on a white background.

Color Contrast Check

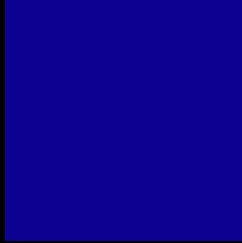
Large Text (above 18pt) WCAG AA ✓ Pass

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, 86.560, 306.545 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

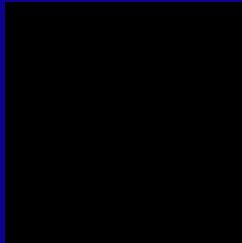
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 86.560, 306.545

Background



This preview shows how black text looks on a background with the CIELCh color 16, 86.560, 306.545.



This preview shows how white text looks on a background with the CIELCh color 16, 86.560, 306.545.

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, 86.603, 306.513

Protanopia

17, 32.267, 282.566

Deuteranopia

17, 22.589, 266.843



Tritanopia
18, 15.376, 201.737

Trichromacy



Original Color
16, 86.603, 306.513

Protanomaly
15, 55.737, 299.378

Deuteranomaly
15, 49.401, 297.225

Tritanomaly
14, 38.274, 292.206

Monochromacy



Original Color
16, 86.603, 306.513

Achromatopsia
6, 0.002, 296.812

Achromatomaly
7, 38.284, 302.894

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 86.560, 306.545 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(12, 1, 144)` looks like.

```
.text, #text, p{  
    color:rgb(12, 1, 144)  
}
```

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(12, 1, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 1, 144) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 86.560, 306.545 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(12, 1, 144) }
```

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

```
.border{ border-color:rgb(12, 1, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 1, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 1, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 1, 144);  
box-shadow:4px 4px 4px 4px rgb(12, 1, 144)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 86.560, 306.545 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 1, 144) }
```

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

```
.background{ background-color: rgb(12, 1,  
144) }
```

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