

Converting Colors

CIELCh(16, 87.566, 306.610)

Have a look what the booklet for
CIELCh(16, 87.566, 306.610)
contains.

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Color

CIELCh(16, 87.482, 306.560)

Conversions

Conversions Part 1

Format	Color
Hex	0A0091
RGB	10, 0, 145
RGB Percent	4%, 0%, 57%
CMY	0.9625, 1.0000, 0.4319
CMYK	0.93, 1.00, 0.00, 0.43
HSL	244°, 100%, 28%
HSV	244°, 100%, 57%
XYZ	5.2188, 2.0993, 26.8650
YIQ	19.5200, -40.5850, 47.2150

Conversions

Conversions Part 2

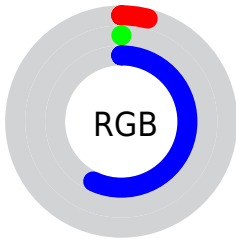
Format	Color
RYB	10, 0, 145
Decimal	655505
CIELab	16.00, 52.11, -70.27
CIELCh	16, 87.482, 306.560
Yxy	2.0993, 0.1527, 0.0614
Android (android.graphics.Color)	4278845585 (0xFF0A0091)
YUV	19.5200, 61.8616, -8.3490
Hunter-Lab	14.4890, 38.9382, -99.7914

Details

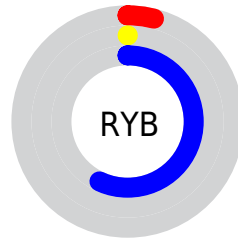
The CIELCh color **16, 87.482, 306.560** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **57, 63.795, 106.834**, and the grayscale version is **6, 0.002, 296.812**.

A 20% lighter version of the original color is **36, 87.298, 306.621**, and **7, 63.883, 306.215** is the 20% darker color. If you saturate the color by 10%, you get **16, 87.441, 306.548**, and if you desaturate by 10%, it is **18, 81.920, 305.527**.

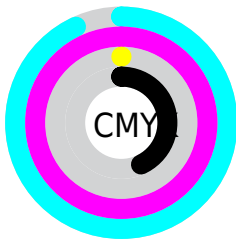
Distribution



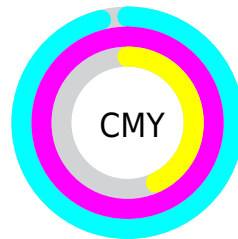
- Red (4%)
- Green (0%)
- Blue (57%)



- Red (4%)
- Yellow (0%)
- Blue (57%)



- Cyan (93%)
- Magenta (100%)
- Yellow (0%)
- Black (43%)





- Cyan (96%)
- Magenta (100%)
- Yellow (43%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 87.482, 306.560 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, 87.482, 306.560 by changing the saturation by 10% instead.

 16, 87.482,
306.560


 16, 87.482,
306.560


 100, 87.482,
306.560


 6, 87.482, 306.560


 36, 87.482,
306.560

 0, 87.482, 306.560

 46, 87.482,
306.560


 56, 87.482,
306.560


 66, 87.482,
306.560


 76, 87.482,
306.560


 86, 87.482,


306.560


 96, 87.482,
306.560


 16, 87.482,
306.560


 16, 87.482,
306.560


 16, 87.441,
306.548

 18, 81.920,
305.527

 21, 74.385,
304.179

 25, 65.107,
302.464

 30, 55.163,
300.646

 35, 45.180,
298.900

■ 40, 35.440,
297.313

■ 45, 26.046,
295.916

■ 50, 17.018,
294.706

■ 55, 8.346, 293.668

Harmonies

Complementary

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



16, 87.482, 306.560



57, 63.795, 106.834

Rectangle

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



16, 87.482, 306.560



16, 87.482, 356.560



16, 87.482, 126.560



16, 87.482, 176.560

Sweetspot

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



16, 87.441, 306.548



57, 32.354, 295.998



52, 30.805, 204.513



27, 22.171, 296.503



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, 87.441, 306.548



23, 106.374, 306.479



23, 80.861, 313.312



27, 4.650, 293.588



14, 83.106, 306.570



0, 3.090, 292.772

Inverse Universe

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



33, 72.085, 330.986



44, 87.503, 331.048



53, 72.489, 129.291



28, 5.362, 326.743



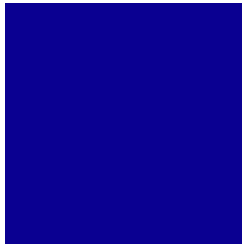
31, 68.557, 330.968



1, 3.601, 326.262

Previews

White Background



This preview shows how the CIELCh color 16, 87.482, 306.560 looks on a white background.

Color Contrast Check

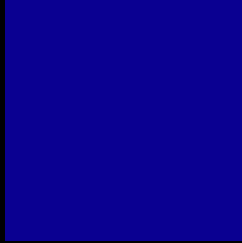
Large Text (above 18pt) WCAG AA ✓ Pass

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, 87.482, 306.560 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

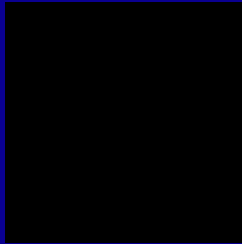
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 87.482, 306.560

Background



This preview shows how black text looks on a background with the CIELCh color 16, 87.482, 306.560.



This preview shows how white text looks on a background with the CIELCh color 16, 87.482, 306.560.

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, 87.482, 306.560

Protanopia

17, 32.899, 283.154

Deuteranopia

17, 22.589, 266.843



Tritanopia
18, 15.376, 201.737

Trichromacy



Original Color
16, 87.482, 306.560

Protanomaly
15, 56.359, 299.424

Deuteranomaly
15, 49.421, 297.114

Tritanomaly
14, 38.294, 292.022

Monochromacy



Original Color
16, 87.482, 306.560

Achromatopsia
6, 0.002, 296.812

Achromatomaly
7, 38.930, 302.997

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 87.482, 306.560 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(10, 0, 145)` looks like.

```
.text, #text, p{  
    color:rgb(10, 0, 145)  
}
```

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(10, 0, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 0, 145) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 87.482, 306.560 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(10, 0, 145) }
```

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

```
.border{ border-color:rgb(10, 0, 145) }
```

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

Here you see how a box with a 4 pixel rgb(10, 0, 145) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 0, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 0, 145);  
box-shadow:4px 4px 4px 4px rgb(10, 0, 145)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 87.482, 306.560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 0, 145) }
```

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

```
.background{ background-color: rgb(10, 0,  
145) }
```

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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