

# Converting Colors

CIELCh(9, 93.056, 300.483)

Have a look what the booklet for  
CIELCh(9, 93.056, 300.483) contains.

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# Color

**CIELCh(16, 84.386, 305.591)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	01068E
RGB	1, 6, 142
RGB Percent	0%, 2%, 56%
CMY	0.9970, 0.9756, 0.4423
CMYK	0.99, 0.96, 0.00, 0.44
HSL	238°, 99%, 28%
HSV	238°, 99%, 56%
XYZ	4.9757, 2.0993, 25.8210
YIQ	20.0090, -46.6360, 41.2360

# Conversions

## Conversions Part 2

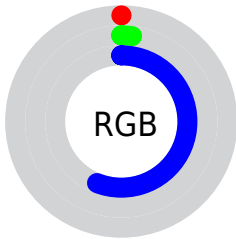
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	1, 6, 142
Decimal	67214
CIE <sub>Lab</sub>	16.00, 49.11, -68.62
CIE <sub>LCh</sub>	16, 84.386, 305.591
Yxy	2.0993, 0.1513, 0.0638
Android (android.graphics.Color)	4278257294 (0xFF01068E)
YUV	20.0090, 60.1416, -16.6709
Hunter-Lab	14.4890, 35.9435, -95.5193

# Details

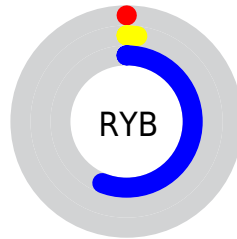
The CIELCh color **16, 84.386, 305.591** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **56, 60.906, 100.437**, and the grayscale version is **6, 0.002, 296.812**.

A 20% lighter version of the original color is **36, 84.248, 305.622**, and **7, 62.251, 306.103** is the 20% darker color. If you saturate the color by 10%, you get **16, 84.668, 305.653**, and if you desaturate by 10%, it is **18, 78.611, 304.247**.

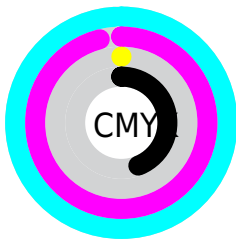
# Distribution



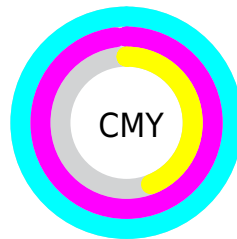
- Red (0%)
- Green (2%)
- Blue (56%)



- Red (0%)
- Yellow (2%)
- Blue (56%)



- Cyan (99%)
- Magenta (96%)
- Yellow (0%)
- Black (44%)




- Cyan (100%)
- Magenta (98%)
- Yellow (44%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 16, 84.386, 305.591 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, 84.386, 305.591 by changing the saturation by 10% instead.




 16, 84.386,  
305.591


 16, 84.386,  
305.591


 100, 84.386,  
305.591


 6, 84.386, 305.591


 36, 84.386,  
305.591

 0, 84.386, 305.591

 46, 84.386,  
305.591


 56, 84.386,  
305.591


 66, 84.386,  
305.591


 76, 84.386,  
305.591


 86, 84.386,


305.591


 96, 84.386,  
305.591


 16, 84.386,  
305.591


 16, 84.386,  
305.591

 16, 84.668,  
305.653

 18, 78.611,  
304.247

 21, 70.579,  
302.285

 25, 61.293,  
300.037

 30, 51.664,  
297.775

 35, 42.158,  
295.668

■ 40, 32.961,  
293.791

■ 44, 24.118,  
292.162

■ 49, 15.625,  
290.764

■ 54, 7.460, 289.574

# Harmonies

# Complementary

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



16, 84.386, 305.591



56, 60.906, 100.437

# Rectangle

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



16, 84.386, 305.591



16, 84.386, 355.591



16, 84.386, 125.591



16, 84.386, 175.591

# Sweetspot

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



16, 84.388, 305.592



57, 30.654, 292.341



53, 33.750, 189.185



27, 21.239, 292.940



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, 84.388, 305.592



23, 103.884, 305.828



20, 81.205, 311.059



28, 4.460, 289.543



15, 81.474, 305.613



0, 2.966, 288.597



# Inverse Universe

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



29, 65.320, 37.472



39, 80.868, 38.472



53, 69.098, 125.907



28, 3.247, 16.761



27, 62.908, 37.261

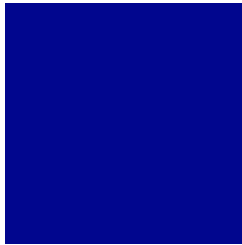


0, 2.126, 16.196



# Previews

## White Background



This preview shows how the CIELCh color 16, 84.386, 305.591 looks on a white background.

## Color Contrast Check

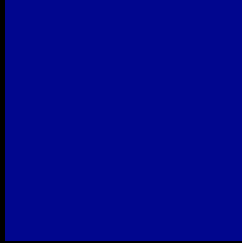
Large Text (above 18pt) WCAG AA ✓ Pass

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, 84.386, 305.591 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

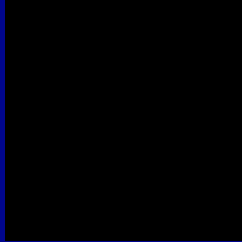
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 16, 84.386, 305.591**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 16, 84.386, 305.591.



This preview shows how white text looks on a background with the CIELCh color 16, 84.386, 305.591.

# 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, 84.349, 305.622

### Protanopia

17, 31.637, 281.954

### Deuteranopia

17, 22.042, 265.562





**Tritanopia**  
17, 15.176, 201.825

# Trichromacy



**Original Color**  
16, 84.349, 305.622

**Protanomaly**  
15, 53.802, 298.024

**Deuteranomaly**  
15, 47.371, 295.483

**Tritanomaly**  
14, 36.186, 289.393

# Monochromacy



**Original Color**  
16, 84.349, 305.622

**Achromatopsia**  
6, 0.002, 296.812

**Achromatomaly**  
7, 36.319, 300.426

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 16, 84.386, 305.591 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(1, 6, 142)` looks like.

```
.text, #text, p{  
    color:rgb(1, 6, 142)  
}
```

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(1, 6, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 6, 142) }
```

## Border

The CSS property to change the border of an element to CIELCh 16, 84.386, 305.591 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(1, 6, 142) }
```

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

```
.border{ border-color:rgb(1, 6, 142) }
```

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

Here you see how a box with a 4 pixel rgb(1, 6, 142) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 6, 142); -webkit-box-shadow:4px  
4px 4px 4px rgb(1, 6, 142); box-shadow:4px  
4px 4px 4px rgb(1, 6, 142) }
```

# Background

The CSS property to change the background color of an element to CIELCh 16, 84.386, 305.591 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 6, 142) }
```

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

```
.background{ background-color: rgb(1, 6,  
142) }
```

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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