

Converting Colors

CIELCh(18, 88.977, 305.659)

Have a look what the booklet for
CIELCh(18, 88.977, 305.659)
contains.

CIELCh(18, 89.123, 305.640)	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(18, 89.123, 305.640)

Conversions

Conversions Part 1

Format	Color
Hex	04089A
RGB	4, 8, 154
RGB Percent	2%, 3%, 60%
CMY	0.9841, 0.9698, 0.3971
CMYK	0.97, 0.95, 0.00, 0.40
HSL	239°, 95%, 31%
HSV	239°, 97%, 60%
XYZ	5.9456, 2.5180, 30.6327
YIQ	23.4480, -49.2500, 44.5580

Conversions

Conversions Part 2

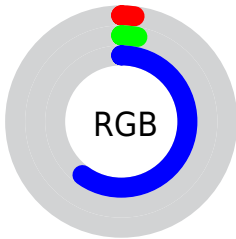
Format	Color
RYB	4, 8, 154
Decimal	264346
CIELab	18.00, 51.93, -72.43
CIELCh	18, 89.123, 305.640
Yxy	2.5180, 0.1521, 0.0644
Android (android.graphics.Color)	4278454426 (0xFF04089A)
YUV	23.4480, 64.3621, -17.0559
Hunter-Lab	15.8683, 39.1116, -103.3474

Details

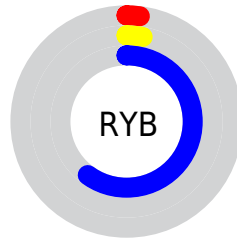
The CIELCh color **18, 89.123, 305.640** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **61, 64.676, 101.415**, and the grayscale version is **8, 0.002, 296.812**.

A 20% lighter version of the original color is **38, 89.227, 305.544**, and **8, 67.812, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **17, 90.500, 305.921**, and if you desaturate by 10%, it is **20, 82.985, 304.299**.

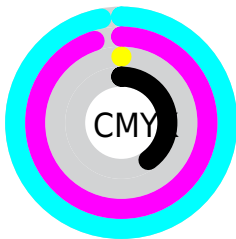
Distribution



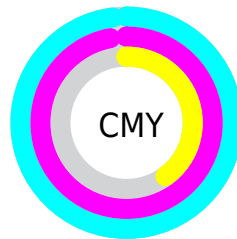
- Red (2%)
- Green (3%)
- Blue (60%)



- Red (2%)
- Yellow (3%)
- Blue (60%)



- Cyan (97%)
- Magenta (95%)
- Yellow (0%)
- Black (40%)



- Cyan (98%)
- Magenta (97%)
- Yellow (40%)
- Black (0%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 89.123, 305.640 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, 89.123, 305.640 by changing the saturation by 10% instead.

■ 18, 89.123,
305.640

■ 18, 89.123,
305.640

■ 100, 89.123,
305.640

■ 8, 89.123, 305.640

■ 38, 89.123,
305.640

■ 0, 89.123, 305.640

■ 48, 89.123,
305.640

■ 58, 89.123,
305.640


■ 68, 89.123,
305.640


■ 78, 89.123,
305.640


■ 88, 89.123,


305.640


 98, 89.123,
305.640

 18, 89.123,
305.640


 18, 89.123,
305.640


 17, 90.500,
305.921

 20, 82.985,
304.299

 24, 74.243,
302.354

 28, 64.183,
300.133

 33, 53.787,
297.910

 38, 43.546,
295.850

■ 44, 33.650,
294.023

■ 49, 24.142,
292.442

■ 54, 15.017,
291.090

■ 60, 6.249, 289.942

Harmonies

Complementary

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



18, 89.123, 305.640



61, 64.676, 101.415

Rectangle

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



18, 89.123, 305.640



18, 89.123, 355.640



18, 89.123, 125.640



18, 89.123, 175.640

Sweetspot

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



18, 89.125, 305.641



61, 31.705, 292.769



57, 35.051, 191.585



29, 21.874, 293.380



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, 89.125, 305.641



24, 109.905, 306.020



23, 84.769, 311.390



30, 4.795, 290.141



15, 84.499, 305.879



0, 5.104, 289.211

Inverse Universe

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



32, 68.971, 37.897



41, 85.666, 39.094



57, 72.943, 126.448



30, 3.438, 17.921



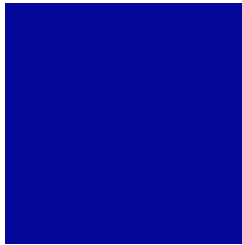
28, 65.297, 38.082



1, 3.599, 17.410

Previews

White Background



This preview shows how the CIELCh color 18, 89.123, 305.640 looks on a white background.

Color Contrast Check

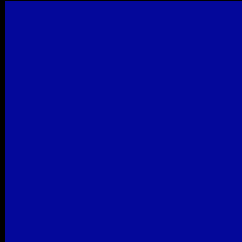
Large Text (above 18pt) WCAG AA ✓ Pass

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 18, 89.123, 305.640 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

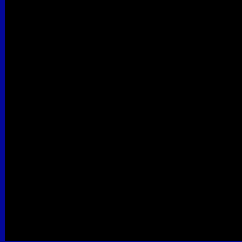
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 89.123, 305.640

Background



This preview shows how black text looks on a background with the CIELCh color 18, 89.123, 305.640.



This preview shows how white text looks on a background with the CIELCh color 18, 89.123, 305.640.

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, 89.154, 305.614

Protanopia

19, 34.603, 283.416

Deuteranopia

19, 23.763, 267.403



Tritanopia
19, 15.971, 201.489

Trichromacy



Original Color
18, 89.154, 305.614

Protanomaly
17, 57.804, 298.593

Deuteranomaly
16, 50.887, 296.200

Tritanomaly
16, 37.838, 289.468

Monochromacy



Original Color
18, 89.154, 305.614

Achromatopsia
8, 0.002, 296.812

Achromatomaly
9, 39.444, 301.056

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 89.123, 305.640 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(4, 8, 154)` looks like.

```
.text, #text, p{  
    color:rgb(4, 8, 154)  
}
```

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(4, 8, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(4, 8, 154) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 89.123, 305.640 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(4, 8, 154) }
```

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

```
.border{ border-color:rgb(4, 8, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(4, 8, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(4, 8, 154); -webkit-box-shadow:4px  
4px 4px 4px rgb(4, 8, 154); box-shadow:4px  
4px 4px 4px rgb(4, 8, 154) }
```

Background

The CSS property to change the background color of an element to CIELCh 18, 89.123, 305.640 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(4, 8, 154) }
```

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

```
.background{ background-color: rgb(4, 8,  
154) }
```

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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