

Converting Colors

CIELCh(18, 93.732, 306.464)

Have a look what the booklet for
CIELCh(18, 93.732, 306.464)
contains.

CIELCh(18, 93.801, 306.421)	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, 93.801, 306.421)

Conversions

Conversions Part 1

Format	Color
Hex	05009F
RGB	5, 0, 159
RGB Percent	2%, 0%, 62%
CMY	0.9809, 1.0000, 0.3776
CMYK	0.97, 1.00, 0.00, 0.38
HSL	242°, 100%, 31%
HSV	242°, 100%, 62%
XYZ	6.2899, 2.5180, 32.8214
YIQ	19.6210, -48.0590, 50.5090

Conversions

Conversions Part 2

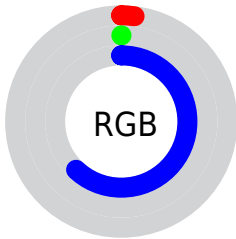
Format	Color
R_{YB}	5, 0, 159
Decimal	327839
CIE _{Lab}	18.00, 55.69, -75.48
CIE _{LCh}	18, 93.801, 306.421
Yxy	2.5180, 0.1511, 0.0605
Android (android.graphics.Color)	4278517919 (0xFF05009F)
YUV	19.6210, 68.7138, -12.8226
Hunter-Lab	15.8683, 42.9848, -111.5253

Details

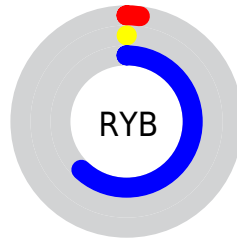
The CIELCh color **18, 93.801, 306.421** is a dark color, and the websafe version is hex **000099**. A complement of this color would be **63, 68.042, 104.728**, and the grayscale version is **6, 0.002, 296.812**.

A 20% lighter version of the original color is **38, 93.811, 306.451**, and **9, 70.160, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **18, 93.711, 306.396**, and if you desaturate by 10%, it is **20, 88.267, 305.367**.

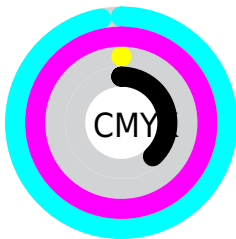
Distribution



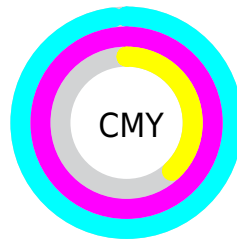
- Red (2%)
- Green (0%)
- Blue (62%)



- Red (2%)
- Yellow (0%)
- Blue (62%)



- Cyan (97%)
- Magenta (100%)
- Yellow (0%)
- Black (38%)



- Cyan (98%)
- Magenta (100%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 93.801, 306.421 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, 93.801, 306.421 by changing the saturation by 10% instead.

■ 18, 93.801,
306.421

■ 18, 93.801,
306.421

■ 100, 93.801,
306.421

■ 8, 93.801, 306.421

■ 38, 93.801,
306.421

■ 0, 93.801, 306.421

■ 48, 93.801,
306.421


■ 58, 93.801,
306.421


■ 68, 93.801,
306.421


■ 78, 93.801,
306.421


■ 88, 93.801,

306.421

 98, 93.801,
306.421


 18, 93.801,
306.421


 18, 93.801,
306.421


 18, 93.711,
306.396

 20, 88.267,
305.367

 23, 80.300,
303.884

 28, 70.301,
301.989

 32, 59.532,
299.977

 38, 48.721,
298.050

■ 43, 38.193,
296.307

■ 49, 28.054,
294.781

■ 54, 18.323,
293.468

■ 60, 8.983, 292.347

Harmonies

Complementary

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



18, 93.801, 306.421



63, 68.042, 104.728

Rectangle

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



18, 93.801, 306.421



18, 93.801, 356.421



18, 93.801, 126.421



18, 93.801, 176.421

Sweetspot

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



18, 93.711, 306.396



62, 34.811, 294.863



58, 34.349, 198.981



30, 24.138, 295.448



92, 0.011, 296.813



44, 0.006, 296.813

Same Dimension

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



18, 93.711, 306.396



25, 114.013, 306.366



25, 87.125, 312.414



31, 5.056, 292.270



16, 86.721, 306.411



0, 6.508, 291.323

Inverse Universe

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



37, 79.175, 329.474



49, 96.236, 329.498



58, 76.797, 128.395



31, 5.979, 325.748



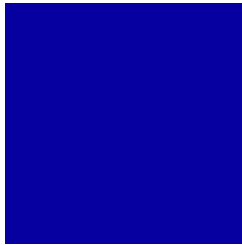
33, 73.302, 329.462



1, 7.741, 325.468

Previews

White Background



This preview shows how the CIELCh color 18, 93.801, 306.421 looks on a white background.

Color Contrast Check

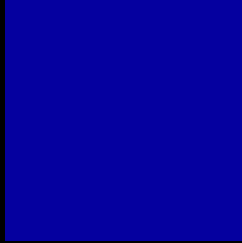
Large Text (above 18pt) WCAG AA ✓ Pass

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, 93.801, 306.421 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

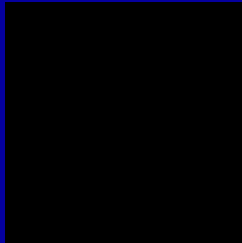
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 93.801, 306.421

Background



This preview shows how black text looks on a background with the CIELCh color 18, 93.801, 306.421.



This preview shows how white text looks on a background with the CIELCh color 18, 93.801, 306.421.

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, 93.835, 306.398

Protanopia

19, 35.167, 283.496

Deuteranopia

20, 23.815, 266.212



Tritanopia
19, 16.050, 203.990

Trichromacy



Original Color
18, 93.835, 306.398

Protanomaly
17, 60.933, 299.800

Deuteranomaly
16, 53.445, 297.326

Tritanomaly
15, 41.255, 292.234

Monochromacy



Original Color
18, 93.835, 306.398

Achromatopsia
6, 0.002, 296.812

Achromatomaly
7, 41.717, 302.516

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 93.801, 306.421 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(5, 0, 159)` looks like.

```
.text, #text, p{  
    color:rgb(5, 0, 159)  
}
```

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(5, 0, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(5, 0, 159) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 93.801, 306.421 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(5, 0, 159) }
```

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

```
.border{ border-color:rgb(5, 0, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(5, 0, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(5, 0, 159); -webkit-box-shadow:4px  
4px 4px 4px rgb(5, 0, 159); box-shadow:4px  
4px 4px 4px rgb(5, 0, 159) }
```

Background

The CSS property to change the background color of an element to CIELCh 18, 93.801, 306.421 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(5, 0, 159) }
```

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

```
.background{ background-color: rgb(5, 0,  
159) }
```

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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