

Converting Colors

CIELCh(18, 80.670, 309.785)

Have a look what the booklet for
CIELCh(18, 80.670, 309.785)
contains.

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Color

CIELCh(18, 80.388, 309.768)

Conversions

Conversions Part 1

Format	Color
Hex	340089
RGB	52, 0, 137
RGB Percent	20%, 0%, 54%
CMY	0.7971, 1.0000, 0.4636
CMYK	0.62, 1.00, 0.00, 0.46
HSL	263°, 100%, 27%
HSV	263°, 100%, 54%
XYZ	5.9000, 2.5180, 23.7607
YIQ	31.1660, -12.9850, 53.6310

Conversions

Conversions Part 2

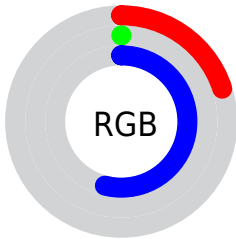
Format	Color
R_{YB}	52, 0, 137
Decimal	3408009
CIE _{Lab}	18.00, 51.42, -61.79
CIE _{LCh}	18, 80.388, 309.768
Yxy	2.5180, 0.1834, 0.0783
Android (android.graphics.Color)	4281598089 (0xFF340089)
YUV	31.1660, 52.1762, 18.2714
Hunter-Lab	15.8683, 38.5989, -77.6711

Details

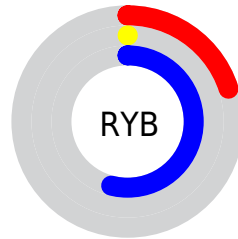
The CIELCh color **18, 80.388, 309.768** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **52, 65.757, 123.047**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 80.752, 309.798**, and **6, 59.932, 305.864** is the 20% darker color. If you saturate the color by 10%, you get **18, 80.314, 309.748**, and if you desaturate by 10%, it is **20, 75.306, 309.765**.

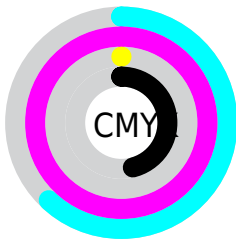
Distribution



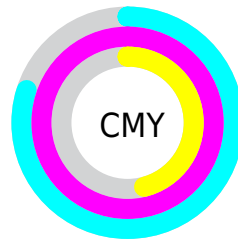
- Red (20%)
- Green (0%)
- Blue (54%)



- Red (20%)
- Yellow (0%)
- Blue (54%)



- Cyan (62%)
- Magenta (100%)
- Yellow (0%)
- Black (46%)



- Cyan (80%)
- Magenta (100%)
- Yellow (46%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 80.388, 309.768 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, 80.388, 309.768 by changing the saturation by 10% instead.

■ 18, 80.388,
309.768

■ 18, 80.388,
309.768

■ 100, 80.388,
309.768

■ 8, 80.388, 309.768

■ 38, 80.388,
309.768

■ 0, 80.388, 309.768

■ 48, 80.388,
309.768


■ 58, 80.388,
309.768


■ 68, 80.388,
309.768


■ 78, 80.388,
309.768

■ 88, 80.388,


309.768


 98, 80.388,
309.768


 18, 80.388,
309.768


 18, 80.388,
309.768


 18, 80.314,
309.748

 20, 75.306,
309.765

 23, 68.975,
309.598

 27, 61.135,
309.130

 31, 52.458,
308.495

 35, 43.434,
307.791

■ 39, 34.365,
307.081

■ 44, 25.423,
306.403

■ 48, 16.693,
305.776

■ 53, 8.217, 305.207

Harmonies

Complementary

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



18, 80.388, 309.768



52, 65.757, 123.047

Rectangle

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



18, 80.388, 309.768



18, 80.388, 359.768



18, 80.388, 129.768



18, 80.388, 179.768

Sweetspot

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



18, 80.314, 309.748



56, 31.625, 306.447



35, 34.125, 266.096



27, 21.604, 306.689



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



18, 80.314, 309.748



25, 97.906, 309.516



29, 73.454, 323.229



27, 4.656, 305.161



17, 78.499, 309.779



0, 2.132, 304.706

Inverse Universe

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



29, 55.820, 350.292



39, 67.584, 350.973



49, 74.486, 135.134



27, 4.170, 338.246



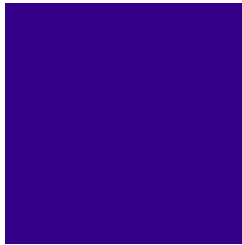
28, 54.608, 350.203



0, 1.919, 337.630

Previews

White Background



This preview shows how the CIE LCh color 18, 80.388, 309.768 looks on a white background.

Color Contrast Check

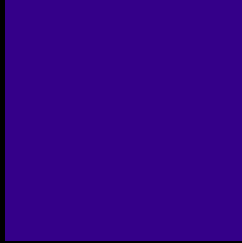
Large Text (above 18pt) WCAG AA ✓ Pass

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, 80.388, 309.768 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

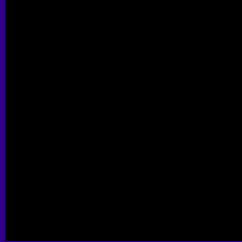
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 80.388, 309.768

Background



This preview shows how black text looks on a background with the CIELCh color 18, 80.388, 309.768.



This preview shows how white text looks on a background with the CIELCh color 18, 80.388, 309.768.

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, 80.388, 309.768

Protanopia

19, 35.167, 283.496

Deuteranopia

19, 24.335, 267.951



Tritanopia
19, 15.962, 206.601

Trichromacy



Original Color
18, 80.388, 309.768

Protanomaly
16, 55.817, 300.355

Deuteranomaly
16, 48.894, 298.412

Tritanomaly
15, 36.384, 293.345

Monochromacy



Original Color
18, 80.388, 309.768

Achromatopsia
12, 0.003, 296.813

Achromatomaly
12, 35.309, 309.085

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 80.388, 309.768 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(52, 0, 137)` looks like.

```
.text, #text, p{  
    color:rgb(52, 0, 137)  
}
```

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(52, 0, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 0, 137) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 80.388, 309.768 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(52, 0, 137) }
```

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

```
.border{ border-color:rgb(52, 0, 137) }
```

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

Here you see how a box with a 4 pixel rgb(52, 0, 137) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 0, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(52, 0, 137);  
box-shadow:4px 4px 4px 4px rgb(52, 0, 137)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 80.388, 309.768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 0, 137) }
```

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

```
.background{ background-color: rgb(52, 0,  
137) }
```

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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