

Converting Colors

CIELCh(18, 77.887, 308.530)

Have a look what the booklet for
CIELCh(18, 77.887, 308.530)
contains.

CIELCh(18, 77.754, 308.590)	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, 77.754, 308.590)

Conversions

Conversions Part 1

Format	Color
Hex	2F0787
RGB	47, 7, 135
RGB Percent	18%, 3%, 53%
CMY	0.8149, 0.9719, 0.4700
CMYK	0.65, 0.95, 0.00, 0.47
HSL	259°, 90%, 28%
HSV	259°, 95%, 53%
XYZ	5.6425, 2.5180, 23.1651
YIQ	33.5520, -17.2480, 48.2880

Conversions

Conversions Part 2

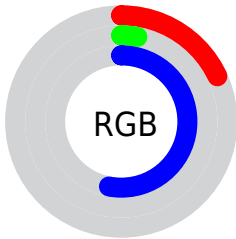
Format	Color
R_{YB}	47, 7, 135
Decimal	3082119
CIE _{Lab}	18.00, 48.50, -60.77
CIE _{LCh}	18, 77.754, 308.590
Yxy	2.5180, 0.1801, 0.0804
Android (android.graphics.Color)	4281272199 (0xFF2F0787)
YUV	33.5520, 50.0139, 11.7939
Hunter-Lab	15.8683, 35.7013, -75.4455




Details

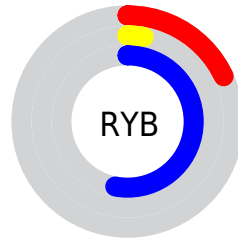
The CIELCh color **18, 77.754, 308.590** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **52, 62.340, 119.765**, and the grayscale version is **13, 0.003, 296.813**.




A 20% lighter version of the original color is **38, 78.208, 308.532**, and **6, 58.710, 305.703** is the 20% darker color. If you saturate the color by 10%, you get **17, 80.590, 308.738**, and if you desaturate by 10%, it is **21, 72.078, 308.397**.

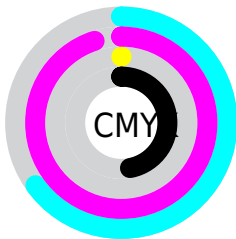
Distribution







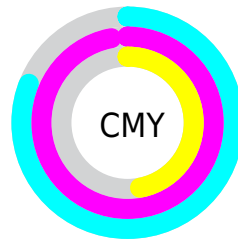
-  Red (18%)
-  Green (3%)
-  Blue (53%)






-  Red (18%)
-  Yellow (3%)
-  Blue (53%)



-  Cyan (65%)
-  Magenta (95%)
-  Yellow (0%)
-  Black (47%)





-  Cyan (81%)
-  Magenta (97%)
-  Yellow (47%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 77.754, 308.590 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, 77.754, 308.590 by changing the saturation by 10% instead.

 18, 77.754,
308.590

 18, 77.754,
308.590


 100, 77.754,
308.590


 8, 77.754, 308.590


 38, 77.754,
308.590

 0, 77.754, 308.590

 48, 77.754,
308.590


 58, 77.754,
308.590


 68, 77.754,
308.590


 78, 77.754,
308.590


 88, 77.754,


308.590

 98, 77.754,
308.590


 18, 77.754,
308.590


 18, 77.754,
308.590


 17, 80.590,
308.738

 21, 72.078,
308.397

 24, 64.623,
307.847

 28, 56.103,
307.080

 32, 47.123,
306.225

 36, 38.058,
305.366

■ 41, 29.113,
304.550

■ 45, 20.389,
303.801

■ 50, 11.931,
303.126

■ 54, 3.750, 302.522

Harmonies

Complementary

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



18, 77.754, 308.590



52, 62.340, 119.765

Rectangle

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



18, 77.754, 308.590



18, 77.754, 358.590



18, 77.754, 128.590



18, 77.754, 178.590

Sweetspot

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



18, 77.755, 308.591



56, 28.865, 304.086



38, 29.263, 252.393



27, 20.208, 304.374



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, 77.755, 308.591



23, 98.050, 308.528



27, 71.858, 321.040



26, 4.467, 302.782



16, 78.343, 308.774



0, 1.055, 302.276

Inverse Universe

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



30, 56.754, 344.321



39, 69.375, 345.749



49, 71.440, 134.413



26, 4.233, 335.374



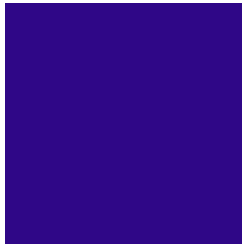
28, 55.881, 345.158



0, 1.006, 334.801

Previews

White Background



This preview shows how the CIE LCh color 18, 77.754, 308.590 looks on a white background.

Color Contrast Check

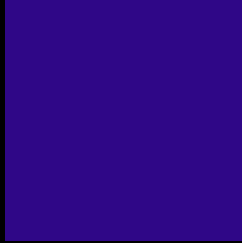
Large Text (above 18pt) WCAG AA ✓ Pass

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, 77.754, 308.590 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

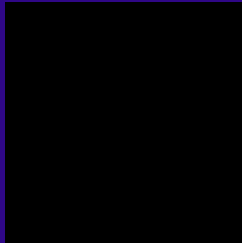
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 18, 77.754, 308.590

Background



This preview shows how black text looks on a background with the CIELCh color 18, 77.754, 308.590.



This preview shows how white text looks on a background with the CIELCh color 18, 77.754, 308.590.

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, 77.754, 308.590

Protanopia

19, 33.978, 282.868

Deuteranopia

19, 23.763, 267.403



Tritanopia
19, 15.571, 206.924

Trichromacy



Original Color
18, 77.754, 308.590

Protanomaly
17, 53.265, 299.071

Deuteranomaly
16, 46.221, 296.732

Tritanomaly
15, 34.357, 291.345

Monochromacy



Original Color
18, 77.754, 308.590

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 33.694, 306.944

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 18, 77.754, 308.590 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(47, 7, 135)` looks like.

```
.text, #text, p{  
    color:rgb(47, 7, 135)  
}
```

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(47, 7, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 7, 135) }
```

Border

The CSS property to change the border of an element to CIELCh 18, 77.754, 308.590 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(47, 7, 135) }
```

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

```
.border{ border-color:rgb(47, 7, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 7, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 7, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 7, 135);  
box-shadow:4px 4px 4px 4px rgb(47, 7, 135)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 18, 77.754, 308.590 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 7, 135) }
```

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

```
.background{ background-color: rgb(47, 7,  
135) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor