

# Converting Colors

CIELCh(39, 113.184, 311.880)

Have a look what the booklet for  
CIELCh(39, 113.184, 311.880)  
contains.

<b>CIELCh(39, 112.971, 311.849)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

**Color**

**CIELCh(39, 112.971, 311.849)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B15E9
RGB	123, 21, 233
RGB Percent	48%, 8%, 91%
CMY	0.5170, 0.9167, 0.0857
CMYK	0.47, 0.91, 0.00, 0.09
HSL	269°, 83%, 50%
HSV	269°, 91%, 91%
XYZ	23.1914, 10.6589, 78.0344
YIQ	75.6660, -7.2600, 87.5560

# Conversions

## Conversions Part 2

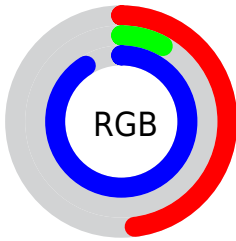
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	123, 21, 233
Decimal	8066537
CIE <sub>Lab</sub>	39.00, 75.37, -84.15
CIE <sub>LCh</sub>	39, 112.971, 311.849
Yxy	10.6589, 0.2073, 0.0953
Android (android.graphics.Color)	4286256617 (0xFF7B15E9)
YUV	75.6660, 77.5657, 41.5119
Hunter-Lab	32.6480, 69.6628, -118.8596

# Details

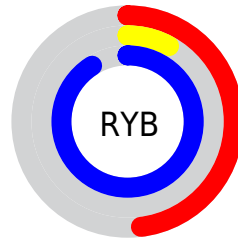
The CIELCh color **39, 112.971, 311.849** is a dark color, and the websafe version is hex **9933FF**. The color can be described as dark washed purple. A complement of this color would be **84, 98.230, 126.613**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **56, 95.191, 314.726**, and **23, 98.074, 308.525** is the 20% darker color. If you saturate the color by 10%, you get **37, 117.278, 311.306**, and if you desaturate by 10%, it is **43, 105.288, 312.086**.

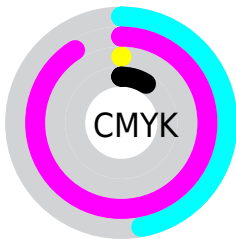
# Distribution



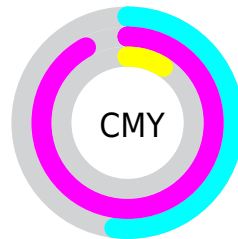
- Red (48%)
- Green (8%)
- Blue (91%)



- Red (48%)
- Yellow (8%)
- Blue (91%)



- Cyan (47%)
- Magenta (91%)
- Yellow (0%)
- Black (9%)




- Cyan (52%)
- Magenta (92%)
- Yellow (9%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 39, 112.971, 311.849 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 39, 112.971, 311.849 by changing the saturation by 10% instead.





 39, 112.971,  
311.849


 39, 112.971,  
311.849

 100, 112.971,  
311.849


 29, 112.971,  
311.849


 59, 112.971,  
311.849


 19, 112.971,  
311.849


 69, 112.971,  
311.849

 9, 112.971,  
311.849

 79, 112.971,  
311.849

 0, 112.971,  
311.849

 89, 112.971,  
311.849

 99, 112.971,  
311.849

■ 39, 112.971,  
311.849

■ 39, 112.971,  
311.849

■ 37, 117.278,  
311.306

■ 43, 105.288,  
312.086

■ 47, 94.728,  
311.959

■ 53, 82.282,  
311.590

■ 59, 68.821,  
311.087

■ 65, 54.965,  
310.526

■ 72, 41.096,  
309.956

■ 78, 27.435,  
309.408

■ 85, 14.100,

308.894

■ 92, 1.144, 308.330

# Harmonies

# Complementary

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



39, 112.971, 311.849



84, 98.230, 126.613

# Rectangle

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



39, 112.971, 311.849



39, 112.971, 1.849



39, 112.971, 131.849



39, 112.971, 181.849

# Sweetspot

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



39, 112.971, 311.850



80, 38.450, 309.747



55, 58.385, 277.045



40, 26.018, 309.938



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



39, 112.971, 311.850



40, 125.572, 311.251



55, 106.227, 326.940



46, 7.377, 308.824



28, 96.871, 311.489



4, 37.580, 310.972



# Inverse Universe

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



51, 78.410, 357.362



55, 84.888, 1.098



81, 109.385, 136.144



46, 6.037, 343.376



39, 65.779, 0.136

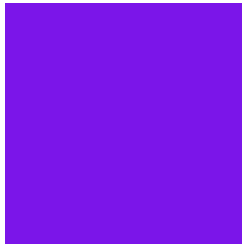


8, 28.798, 353.777



# Previews

## White Background



This preview shows how the CIELCh color 39, 112.971, 311.849 looks on a white background.

## Color Contrast Check

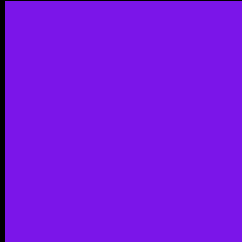
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 39, 112.971, 311.849 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

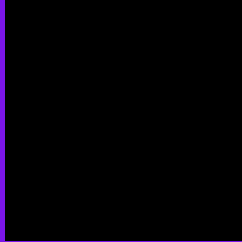
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 39, 112.971, 311.849**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 39, 112.971, 311.849.



This preview shows how white text looks on a background with the CIELCh color 39, 112.971, 311.849.





# 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

39, 112.971, 311.849

### Protanopia

39, 60.055, 286.384

### Deuteranopia

39, 42.260, 273.129



**Tritanopia**  
39, 5.023, 277.000

# Trichromacy



**Original Color**  
39, 112.971, 311.849



**Protanomaly**  
35, 85.205, 299.782



**Deuteranomaly**  
35, 73.244, 297.421



**Tritanomaly**  
36, 51.656, 309.624

# Monochromacy



**Original Color**  
39, 112.971, 311.849



**Achromatopsia**  
32, 0.005, 296.813



**Achromatomaly**  
31, 49.587, 311.318

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 39, 112.971, 311.849 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(123, 21, 233)` looks like.

```
.text, #text, p{  
  color:rgb(123, 21, 233)  
}
```

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(123, 21, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 21, 233) }
```

## Border

The CSS property to change the border of an element to CIELCh 39, 112.971, 311.849 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(123, 21, 233) }
```

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

```
.border{ border-color:rgb(123, 21, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 21, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 21, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 21, 233);  
box-shadow:4px 4px 4px 4px rgb(123, 21,  
233) }
```

# Background

The CSS property to change the background color of an element to CIELCh 39, 112.971, 311.849 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 21, 233) }
```

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

```
.background{ background-color: rgb(123, 21,  
233) }
```

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**