

# Converting Colors

CIELCh(40, 123.015, 311.380)

Have a look what the booklet for  
CIELCh(40, 123.015, 311.380)  
contains.

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**Color**

**CIELCh(40, 122.800, 311.406)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B05FA
RGB	123, 5, 250
RGB Percent	48%, 2%, 98%
CMY	0.5170, 0.9789, 0.0190
CMYK	0.51, 0.98, 0.00, 0.02
HSL	269°, 96%, 50%
HSV	269°, 98%, 98%
XYZ	25.5278, 11.2510, 91.3877
YIQ	68.2120, -8.3170, 101.2110

# Conversions

## Conversions Part 2

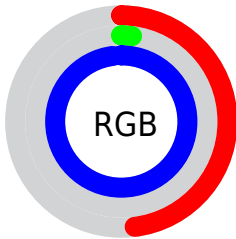
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	123, 5, 250
Decimal	8062458
CIE <sub>Lab</sub>	40.00, 81.22, -92.11
CIE <sub>LCh</sub>	40, 122.800, 311.406
Yxy	11.2510, 0.1992, 0.0878
Android (android.graphics.Color)	4286252538 (0xFF7B05FA)
YUV	68.2120, 89.6215, 48.0491
Hunter-Lab	33.5425, 77.1498, -138.0581

# Details

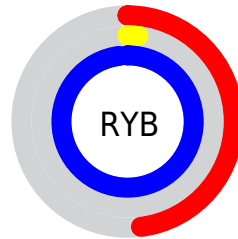
The CIELCh color **40, 122.800, 311.406** is a dark color, and the websafe version is hex **6600FF**. The color can be described as dark saturated purple. A complement of this color would be **89, 106.446, 127.463**, and the grayscale version is **29, 0.004, 296.813**.

A 20% lighter version of the original color is **56, 97.135, 315.379**, and **25, 105.691, 307.770** is the 20% darker color. If you saturate the color by 10%, you get **39, 123.734, 311.268**, and if you desaturate by 10%, it is **43, 117.304, 311.962**.

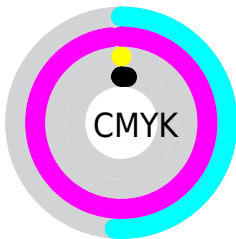
# Distribution



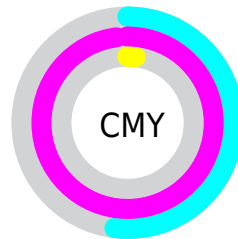
- Red (48%)
- Green (2%)
- Blue (98%)



- Red (48%)
- Yellow (2%)
- Blue (98%)



- Cyan (51%)
- Magenta (98%)
- Yellow (0%)
- Black (2%)




- Cyan (52%)
- Magenta (98%)
- Yellow (2%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 40, 122.800, 311.406 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 40, 122.800, 311.406 by changing the saturation by 10% instead.





 40, 122.800,  
311.406


 40, 122.800,  
311.406


 100, 122.800,  
311.406


 30, 122.800,  
311.406


 60, 122.800,  
311.406


 20, 122.800,  
311.406


 70, 122.800,  
311.406


 10, 122.800,  
311.406

 80, 122.800,  
311.406

 0, 122.800,  
311.406


 90, 122.800,  
311.406


 40, 122.800,


 40, 122.800,


311.406

311.406


 39, 123.734,  
311.268


 43, 117.304,  
311.962


 47, 108.248,  
312.089


 52, 96.415,  
311.883

 58, 82.856,  
311.466

 65, 68.433,  
310.938

 72, 53.726,  
310.369

 78, 39.089,  
309.801

 86, 24.718,  
309.261

■ 93, 10.715,  
308.756

# Harmonies

# Complementary

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



40, 122.800, 311.406



89, 106.446, 127.463

# Rectangle

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



40, 122.800, 311.406



40, 122.800, 1.406



40, 122.800, 131.406



40, 122.800, 181.406

# Sweetspot

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



40, 122.801, 311.407



79, 41.403, 309.867



57, 66.304, 280.557



39, 28.553, 310.109



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



40, 122.801, 311.407



40, 125.565, 311.257



58, 113.702, 326.909



48, 7.771, 308.837



29, 99.925, 311.462



5, 43.226, 312.146



# Inverse Universe

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



54, 83.486, 0.210



55, 84.884, 1.124



86, 117.446, 135.978



49, 6.357, 343.396



41, 67.809, 0.293

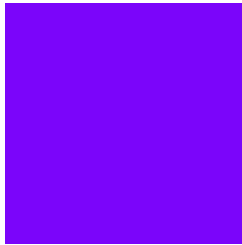


10, 31.253, 354.749



# Previews

## White Background



This preview shows how the CIE LCh color 40, 122.800, 311.406 looks on a white background.

## Color Contrast Check

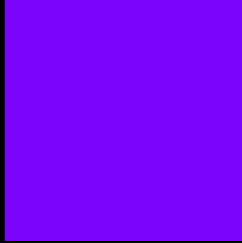
Large Text (above 18pt) WCAG AA ✓ Pass

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 40, 122.800, 311.406 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

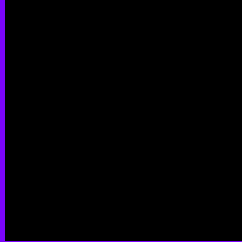
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 40, 122.800, 311.406

## Background



This preview shows how black text looks on a background with the CIELCh color 40, 122.800, 311.406.



This preview shows how white text looks on a background with the CIELCh color 40, 122.800, 311.406.





# 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

40, 122.800, 311.406

### Protanopia

40, 61.532, 286.419

### Deuteranopia

40, 42.765, 272.712



**Tritanopia**  
40, 7.757, 237.935

# Trichromacy



**Original Color**  
40, 122.800, 311.406

**Protanomaly**  
35, 92.376, 300.981

**Deuteranomaly**  
34, 80.839, 299.252

**Tritanomaly**  
35, 58.510, 307.464

# Monochromacy



**Original Color**  
40, 122.800, 311.406

**Achromatopsia**  
29, 0.005, 296.813

**Achromatomaly**  
29, 56.987, 311.757

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 40, 122.800, 311.406 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, 5, 250)` looks like.

```
.text, #text, p{  
  color:rgb(123, 5, 250)  
}
```

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, 5, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 5, 250) }
```

## Border

The CSS property to change the border of an element to CIELCh 40, 122.800, 311.406 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, 5, 250) }
```

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

```
.border{ border-color:rgb(123, 5, 250) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 5, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 5, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 5, 250);  
box-shadow:4px 4px 4px 4px rgb(123, 5,  
250) }
```

# Background

The CSS property to change the background color of an element to CIELCh 40, 122.800, 311.406 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 5, 250) }
```

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

```
.background{ background-color: rgb(123, 5,  
250) }
```

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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