

# Converting Colors

CIELCh(25, 108.052, 314.111)

Have a look what the booklet for  
CIELCh(25, 108.052, 314.111)  
contains.

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**Color**

**CIELCh(28, 96.856, 311.909)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5A00B5
RGB	90, 0, 181
RGB Percent	35%, 0%, 71%
CMY	0.6477, 1.0000, 0.2905
CMYK	0.50, 1.00, 0.00, 0.29
HSL	270°, 100%, 35%
HSV	270°, 100%, 71%
XYZ	12.5119, 5.4574, 44.0710
YIQ	47.5440, -4.4610, 75.3710

# Conversions

## Conversions Part 2

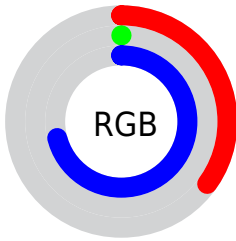
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	90, 0, 181
Decimal	5898421
CIE <sub>Lab</sub>	28.00, 64.69, -72.08
CIE <sub>LCh</sub>	28, 96.856, 311.909
Yxy	5.4574, 0.2017, 0.0880
Android (android.graphics.Color)	4284088501 (0xFF5A00B5)
YUV	47.5440, 65.7938, 37.2339
Hunter-Lab	23.3610, 54.7209, -95.4989

# Details

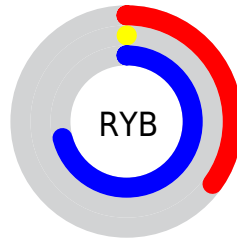
The CIELCh color **28, 96.856, 311.909** is a dark color, and the websafe version is hex **6600CC**. A complement of this color would be **66, 84.197, 127.902**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **48, 96.460, 311.920**, and **13, 79.093, 306.860** is the 20% darker color. If you saturate the color by 10%, you get **28, 96.500, 311.834**, and if you desaturate by 10%, it is **30, 91.963, 312.311**.

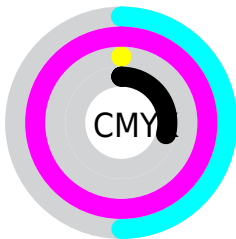
# Distribution



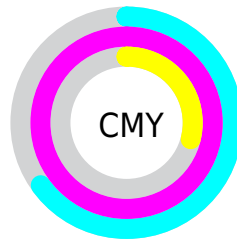
- Red (35%)
- Green (0%)
- Blue (71%)



- Red (35%)
- Yellow (0%)
- Blue (71%)



- Cyan (50%)
- Magenta (100%)
- Yellow (0%)
- Black (29%)




- Cyan (65%)
- Magenta (100%)
- Yellow (29%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 28, 96.856, 311.909 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 28, 96.856, 311.909 by changing the saturation by 10% instead.




 28, 96.856,  
311.909


 28, 96.856,  
311.909

 100, 96.856,  
311.909


 18, 96.856,  
311.909


 48, 96.856,  
311.909


 8, 96.856, 311.909

 58, 96.856,  
311.909

 0, 96.856, 311.909

 68, 96.856,  
311.909

 78, 96.856,  
311.909

 88, 96.856,  
311.909

 98, 96.856,

311.909

■ 28, 96.856,  
311.909

■ 28, 96.856,  
311.909

■ 28, 96.500,  
311.834

■ 30, 91.963,  
312.311

■ 34, 85.215,  
312.479

■ 37, 76.325,  
312.323

■ 42, 66.056,  
311.956

■ 47, 55.055,  
311.472

■ 52, 43.776,  
310.936

■ 57, 32.502,  
310.394

■ 63, 21.398,  
309.871

■ 68, 10.553,  
309.380

# Harmonies

# Complementary

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



28, 96.856, 311.909



66, 84.197, 127.902

# Rectangle

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



28, 96.856, 311.909



28, 96.856, 1.909



28, 96.856, 131.909



28, 96.856, 181.909

# Sweetspot

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



28, 96.500, 311.834



73, 40.166, 310.421



40, 53.896, 282.308



36, 27.505, 310.645



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



28, 96.500, 311.834



37, 117.437, 311.646



42, 89.382, 327.576



35, 5.905, 309.347



23, 85.153, 311.983



1, 13.832, 305.118



# Inverse Universe

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



39, 65.546, 1.595



51, 79.518, 2.383



64, 92.483, 135.945



35, 4.767, 344.181



32, 57.988, 0.987

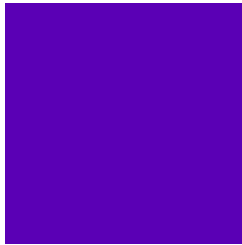


2, 10.626, 349.666



# Previews

## White Background



This preview shows how the CIELCh color 28, 96.856, 311.909 looks on a white background.

## Color Contrast Check

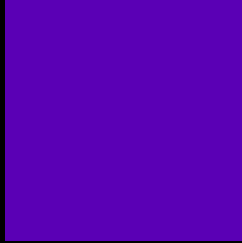
Large Text (above 18pt) WCAG AA ✓ Pass

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 28, 96.856, 311.909 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

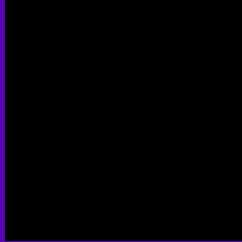
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 28, 96.856, 311.909**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 28, 96.856, 311.909.



This preview shows how white text looks on a background with the CIELCh color 28, 96.856, 311.909.

# 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

28, 96.513, 311.851

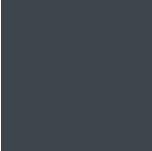
### Protanopia

29, 47.153, 285.031

### Deuteranopia

29, 33.294, 271.418





**Tritanopia**  
29, 5.567, 243.062

# Trichromacy



**Original Color**  
28, 96.513, 311.851

**Protanomaly**  
25, 71.711, 300.894

**Deuteranomaly**  
24, 62.938, 299.269

**Tritanomaly**  
25, 45.562, 308.414

# Monochromacy



**Original Color**  
28, 96.513, 311.851

**Achromatopsia**  
19, 0.004, 296.813

**Achromatomaly**  
19, 44.891, 312.246

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 28, 96.856, 311.909 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(90, 0, 181)` looks like.

```
.text, #text, p{  
    color:rgb(90, 0, 181)  
}
```

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(90, 0, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 0, 181) }
```

## Border

The CSS property to change the border of an element to CIELCh 28, 96.856, 311.909 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(90, 0, 181) }
```

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

```
.border{ border-color:rgb(90, 0, 181) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 0, 181)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 0, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 0, 181);  
box-shadow:4px 4px 4px 4px rgb(90, 0, 181)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 28, 96.856, 311.909 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 0, 181) }
```

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

```
.background{ background-color: rgb(90, 0,  
181) }
```

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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