

# Converting Colors

CIELCh(49, 98.016, 315.894)

Have a look what the booklet for  
CIELCh(49, 98.016, 315.894)  
contains.

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**Color**

**CIELCh(49, 98.036, 315.894)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A83CEA
RGB	168, 60, 234
RGB Percent	66%, 24%, 92%
CMY	0.3398, 0.7633, 0.0810
CMYK	0.28, 0.74, 0.00, 0.08
HSL	277°, 81%, 58%
HSV	277°, 74%, 92%
XYZ	32.7600, 17.5941, 79.7744
YIQ	112.1280, 8.5140, 77.0100

# Conversions

## Conversions Part 2

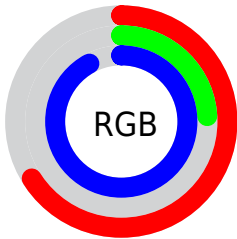
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">168, 60, 234</a>
Decimal	<a href="#">11025642</a>
CIELab	<a href="#">49.00, 70.40, -68.23</a>
CIELCh	<a href="#">49, 98.036, 315.894</a>
Yxy	<a href="#">17.5941, 0.2518, 0.1352</a>
Android (android.graphics.Color)	<a href="#">4289215722 (0xFFA83CEA)</a>
YUV	<a href="#">112.1280, 60.0829, 48.9997</a>
Hunter-Lab	<a href="#">41.9453, 66.0072, -83.4000</a>

# Details

The CIELCh color **49, 98.036, 315.894** is a light color, and the websafe version is hex **9900CC**. The color can be described as light washed purple. A complement of this color would be **84, 91.416, 130.164**, and the grayscale version is **47, 0.006, 296.813**.

A 20% lighter version of the original color is **67, 80.905, 321.204**, and **30, 92.552, 314.881** is the 20% darker color. If you saturate the color by 10%, you get **45, 106.656, 315.735**, and if you desaturate by 10%, it is **54, 87.003, 315.791**.

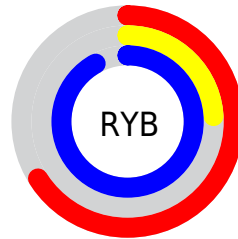
# Distribution



Red (66%)

Green (24%)

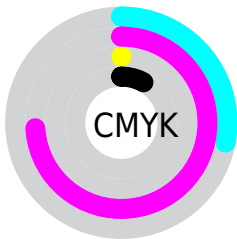
Blue (92%)



Red (66%)

Yellow (24%)

Blue (92%)

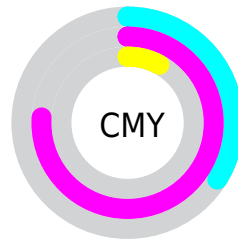


Cyan (28%)

Magenta (74%)

Yellow (0%)

Black (8%)



Cyan (34%)

Magenta (76%)

Yellow (8%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 98.036, 315.894 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 49, 98.036, 315.894 by changing the saturation by 10% instead.



 49, 98.036,  
315.894

 49, 98.036,  
315.894

 100, 98.036,  
315.894

 39, 98.036,  
315.894

 69, 98.036,  
315.894


 29, 98.036,  
315.894

 79, 98.036,  
315.894

 19, 98.036,  
315.894

 89, 98.036,  
315.894

 9, 98.036, 315.894

 99, 98.036,  
315.894


 0, 98.036, 315.894


 49, 98.036,


 49, 98.036,


315.894


315.894


 45, 106.656,  
315.735


 54, 87.003,  
315.791


 42, 112.195,  
315.235

 59, 74.371,  
315.510

 41, 114.231,  
314.823

 65, 60.840,  
315.122


 71, 46.922,  
314.681

 77, 32.958,  
314.221

 84, 19.157,  
313.766

 90, 5.640, 313.313

 97, 7.529, 132.967

 99, 10.752,  
122.171

# Harmonies

# Complementary

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



49, 98.036, 315.894



84, 91.416, 130.164

# Rectangle

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



49, 98.036, 315.894



49, 98.036, 5.894



49, 98.036, 135.894



49, 98.036, 185.894

# Sweetspot

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



49, 98.035, 315.894



85, 31.964, 314.123



54, 62.227, 284.222



43, 21.534, 314.248



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



49, 98.035, 315.894



48, 117.181, 315.523



58, 90.350, 332.146



46, 7.606, 313.552



31, 94.037, 315.001



5, 38.234, 315.689



# Inverse Universe

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



54, 69.764, 3.145



55, 82.167, 9.183



82, 93.911, 140.184



46, 5.523, 351.527



38, 65.851, 13.584

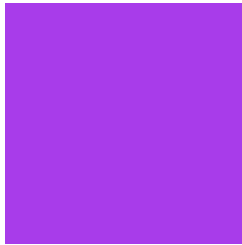


7, 27.894, 4.321



# Previews

## White Background



This preview shows how the CIELCh color 49, 98.036, 315.894 looks on a white background.

## Color Contrast Check

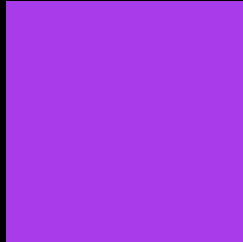
Large Text (above 18pt) WCAG AA ✓ Pass

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 49, 98.036, 315.894 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

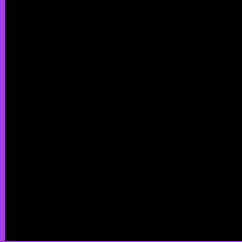
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 49, 98.036, 315.894**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 49, 98.036, 315.894.



This preview shows how white text looks on a background with the CIELCh color 49, 98.036, 315.894.

# 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**  
49, 98.036, 315.894

**Protanopia**  
49, 73.257, 287.197

**Deuteranopia**  
49, 53.853, 276.451





**Tritanopia**  
49, 18.602, 7.402

# Trichromacy



**Original Color**  
49, 98.036, 315.894



**Protanomaly**  
46, 83.951, 296.126



**Deuteranomaly**  
45, 70.959, 292.948



**Tritanomaly**  
48, 45.770, 325.821

# Monochromacy



**Original Color**  
49, 98.036, 315.894



**Achromatopsia**  
47, 0.006, 296.813



**Achromatomaly**  
46, 39.827, 314.855

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 98.036, 315.894 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(168, 60, 234)` looks like.

```
.text, #text, p{  
    color:rgb(168, 60, 234)  
}
```

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(168, 60, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 60, 234) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 98.036, 315.894 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(168, 60, 234) }
```

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

```
.border{ border-color:rgb(168, 60, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 60, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 60, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 60, 234);  
box-shadow:4px 4px 4px 4px rgb(168, 60,  
234) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 98.036, 315.894 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 60, 234) }
```

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

```
.background{ background-color: rgb(168, 60,  
234) }
```

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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