

# Converting Colors

CIELCh(49, 68.335, 306.746)

Have a look what the booklet for  
CIELCh(49, 68.335, 306.746)  
contains.

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**Color**

**CIELCh(49, 68.342, 306.855)**

# Conversions

## Conversions Part 1

Format	Color
Hex	845ED2
RGB	132, 94, 210
RGB Percent	52%, 37%, 82%
CMY	0.4819, 0.6310, 0.1761
CMYK	0.37, 0.55, 0.00, 0.18
HSL	260°, 56%, 60%
HSV	260°, 55%, 82%
XYZ	25.1887, 17.5941, 63.1092
YIQ	118.5860, -14.5880, 44.1320

# Conversions

## Conversions Part 2

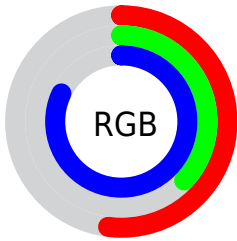
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	132, 94, 210
Decimal	8675026
CIE Lab	49.00, 40.99, -54.68
CIE LCh	49, 68.342, 306.855
Yxy	17.5941, 0.2379, 0.1662
Android (android.graphics.Color)	4286865106 (0xFF845ED2)
YUV	118.5860, 45.0671, 11.7641
Hunter-Lab	41.9453, 33.7876, -59.8437

# Details

The CIELCh color **49, 68.342, 306.855** is a dark color, and the websafe version is hex **9966CC**. The color can be described as middle muted purple. A complement of this color would be **79, 60.623, 119.931**, and the grayscale version is **50, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 61.400, 307.919**, and **29, 68.341, 306.729** is the 20% darker color. If you saturate the color by 10%, you get **43, 81.043, 307.681**, and if you desaturate by 10%, it is **55, 55.377, 306.001**.

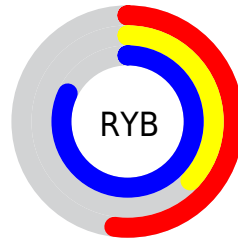
# Distribution



Red (52%)

Green (37%)

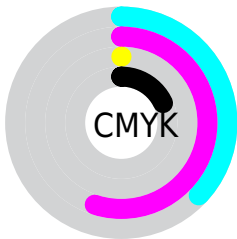
Blue (82%)



Red (52%)

Yellow (37%)

Blue (82%)

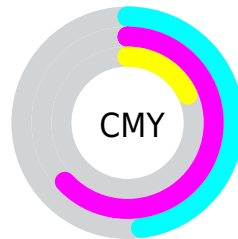


Cyan (37%)

Magenta (55%)

Yellow (0%)

Black (18%)



Cyan (48%)

Magenta (63%)

Yellow (18%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 68.342, 306.855 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, 68.342, 306.855 by changing the saturation by 10% instead.





 49, 68.342,  
306.855


 49, 68.342,  
306.855


 100, 68.342,  
306.855

 39, 68.342,  
306.855

 69, 68.342,  
306.855

 29, 68.342,  
306.855

 79, 68.342,  
306.855

 19, 68.342,  
306.855

 89, 68.342,  
306.855

 9, 68.342, 306.855

 99, 68.342,  
306.855

 0, 68.342, 306.855

 49, 68.342,

 49, 68.342,

306.855

43, 81.043,  
307.681

38, 92.822,  
308.373

34, 102.662,  
308.780

30, 109.395,  
308.732

29, 111.781,  
308.622

306.855

55, 55.377,  
306.001

61, 42.520,  
305.177

68, 29.957,  
304.415


74, 17.772,  
303.729

81, 5.992, 303.114

87, 5.382, 122.603

94, 16.362,  
122.131

98, 23.011,  
117.600

 99, 22.676,  
108.459

# Harmonies

# Complementary

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



49, 68.342, 306.855



79, 60.623, 119.931

# Rectangle

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



49, 68.342, 306.855



49, 68.342, 356.855



49, 68.342, 126.855



49, 68.342, 176.855

# Sweetspot

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



49, 68.341, 306.855



87, 23.314, 303.858



67, 29.557, 241.826



45, 15.648, 303.995



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, 68.341, 306.855



52, 95.953, 307.798



56, 70.582, 321.601



41, 6.537, 303.364



22, 94.586, 308.770



2, 26.045, 301.623



# Inverse Universe

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



57, 58.274, 340.051



64, 78.146, 341.395



76, 69.404, 135.949



41, 6.113, 336.050



37, 66.570, 346.802

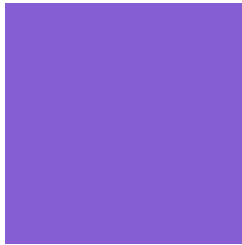


5, 24.208, 342.582



# Previews

## White Background



This preview shows how the CIELCh color 49, 68.342, 306.855 looks on a white background.

## Color Contrast Check

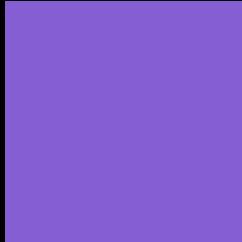
Large Text (above 18pt) WCAG AA ✓ Pass

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, 68.342, 306.855 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

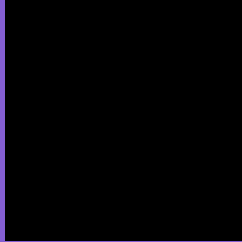
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 49, 68.342, 306.855**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 49, 68.342, 306.855.



This preview shows how white text looks on a background with the CIELCh color 49, 68.342, 306.855.


# 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







**Tritanopia**  
49, 5.333, 282.478

# Trichromacy



**Original Color**  
49, 68.342, 306.855

**Protanomaly**  
48, 68.511, 292.884

**Deuteranomaly**  
48, 57.694, 288.782

**Tritanomaly**  
48, 28.760, 302.870

# Monochromacy



**Original Color**  
49, 68.342, 306.855

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
49, 25.309, 304.738

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 68.342, 306.855 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(132, 94, 210)` looks like.

```
.text, #text, p{  
  color:rgb(132, 94, 210)  
}
```

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(132, 94, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 94, 210) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 68.342, 306.855 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(132, 94, 210) }
```

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

```
.border{ border-color:rgb(132, 94, 210) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 94, 210)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 94, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 94, 210);  
box-shadow:4px 4px 4px 4px rgb(132, 94,  
210) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 68.342, 306.855 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 94, 210) }
```

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

```
.background{ background-color: rgb(132, 94,  
210) }
```

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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