

# Converting Colors

CIELCh(49, 69.485, 323.799)

Have a look what the booklet for  
CIELCh(49, 69.485, 323.799)  
contains.

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**Color**

**CIELCh(49, 69.483, 323.809)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AE4BBB
RGB	174, 75, 187
RGB Percent	68%, 29%, 73%
CMY	0.3180, 0.7062, 0.2670
CMYK	0.07, 0.60, 0.00, 0.27
HSL	293°, 45%, 51%
HSV	293°, 60%, 73%
XYZ	28.9075, 17.5941, 48.8396
YIQ	117.3690, 23.0520, 55.8200

# Conversions

## Conversions Part 2

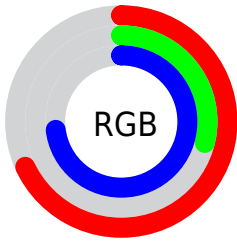
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 75, 187
Decimal	11422651
CIELab	49.00, 56.08, -41.03
CIELCh	49, 69.483, 323.809
Yxy	17.5941, 0.3032, 0.1845
Android (android.graphics.Color)	4289612731 (0xFFAE4BBB)
YUV	117.3690, 34.3281, 49.6654
Hunter-Lab	41.9453, 49.6130, -39.6735

# Details

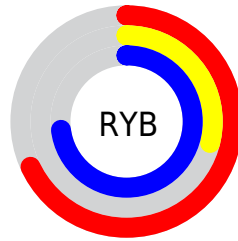
The CIELCh color **49, 69.483, 323.809** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **68, 69.149, 137.126**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **69, 69.734, 323.781**, and **29, 69.518, 323.740** is the 20% darker color. If you saturate the color by 10%, you get **46, 78.311, 324.015**, and if you desaturate by 10%, it is **53, 59.172, 323.495**.

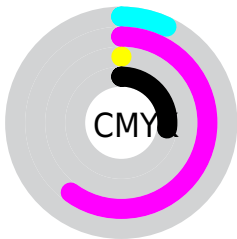
# Distribution



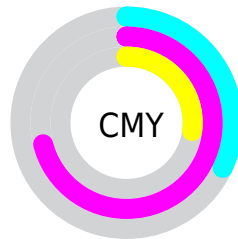
- Red (68%)
- Green (29%)
- Blue (73%)



- Red (68%)
- Yellow (29%)
- Blue (73%)



- Cyan (7%)
- Magenta (60%)
- Yellow (0%)
- Black (27%)




- Cyan (32%)
- Magenta (71%)
- Yellow (27%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 69.483, 323.809 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, 69.483, 323.809 by changing the saturation by 10% instead.





 49, 69.483,  
323.809


 49, 69.483,  
323.809


 100, 69.483,  
323.809


 39, 69.483,  
323.809

 69, 69.483,  
323.809


 29, 69.483,  
323.809

 79, 69.483,  
323.809

 19, 69.483,  
323.809

 89, 69.483,  
323.809

 9, 69.483, 323.809

 99, 69.483,  
323.809

 0, 69.483, 323.809

 49, 69.483,

 49, 69.483,

323.809

46, 78.311,  
324.015

43, 85.173,  
324.083

42, 89.723,  
323.988

41, 92.254,  
323.749

41, 92.273,  
323.747

323.809

53, 59.172,  
323.495

57, 47.880,  
323.104

61, 36.029,  
322.663

66, 23.942,  
322.193

71, 11.852,  
321.709

76, 0.090, 143.690

81, 11.787,  
140.817

86, 23.185,  
140.370

■ 91, 34.257,  
139.954

# Harmonies

# Complementary

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



49, 69.483, 323.809



68, 69.149, 137.126

# Rectangle

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



49, 69.483, 323.809



49, 69.483, 13.809



49, 69.483, 143.809



49, 69.483, 193.809

# Sweetspot

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



49, 69.481, 323.809



85, 26.692, 322.116



41, 59.553, 295.101



44, 18.722, 322.256



98, 0.011, 296.813



51, 0.007, 296.813





# Same Dimension

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



49, 69.481, 323.809



58, 98.129, 324.054



49, 54.871, 343.510



37, 6.823, 321.681



34, 81.513, 323.801



3, 20.275, 320.372



# Inverse Universe

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



47, 48.901, 18.979



56, 72.663, 23.322



68, 54.015, 151.534



37, 4.137, 10.568



33, 68.243, 34.391



3, 12.354, 12.746



# Previews

## White Background



This preview shows how the CIELCh color 49, 69.483, 323.809 looks on a white background.

## Color Contrast Check

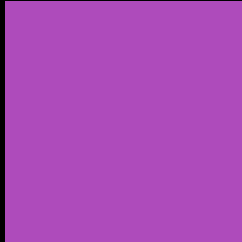
Large Text (above 18pt) WCAG AA ✓ Pass

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, 69.483, 323.809 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

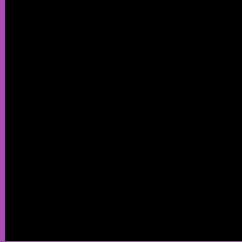
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 49, 69.483, 323.809**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 49, 69.483, 323.809.



This preview shows how white text looks on a background with the CIELCh color 49, 69.483, 323.809.

# 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, 69.483, 323.809

### Protanopia

49, 64.510, 287.370

### Deuteranopia

49, 37.495, 280.988





**Tritanopia**  
49, 28.171, 15.077

# Trichromacy



**Original Color**  
49, 69.483, 323.809

**Protanomaly**  
47, 65.233, 297.859

**Deuteranomaly**  
48, 48.062, 301.928

**Tritanomaly**  
49, 39.002, 343.518

# Monochromacy



**Original Color**  
49, 69.483, 323.809

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
48, 27.222, 323.031

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 69.483, 323.809 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(174, 75, 187)` looks like.

```
.text, #text, p{  
    color:rgb(174, 75, 187)  
}
```

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(174, 75, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 75, 187) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 69.483, 323.809 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(174, 75, 187) }
```

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

```
.border{ border-color:rgb(174, 75, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(174, 75, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 75, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 75, 187);  
box-shadow:4px 4px 4px 4px rgb(174, 75,  
187) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 69.483, 323.809 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 75, 187) }
```

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

```
.background{ background-color: rgb(174, 75,  
187) }
```

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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