

# Converting Colors

CIELCh(66, 11.987, 303.312)

Have a look what the booklet for  
CIELCh(66, 11.987, 303.312)  
contains.

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# Color

**CIELCh(66, 11.978, 303.707)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A49DB2
RGB	164, 157, 178
RGB Percent	64%, 62%, 70%
CMY	0.3560, 0.3835, 0.3011
CMYK	0.08, 0.12, 0.00, 0.30
HSL	260°, 12%, 66%
HSV	260°, 12%, 70%
XYZ	35.5043, 35.3238, 47.1805
YIQ	161.4870, -2.5690, 8.0150

# Conversions

## Conversions Part 2

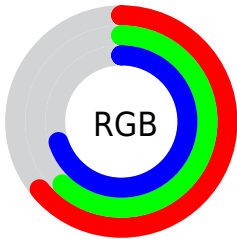
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	164, 157, 178
Decimal	10788274
CIE <sub>Lab</sub>	66.00, 6.65, -9.96
CIE <sub>LCh</sub>	66, 11.978, 303.707
Yxy	35.3238, 0.3009, 0.2993
Android (android.graphics.Color)	4288978354 (0xFFA49DB2)
YUV	161.4870, 8.1409, 2.2039
Hunter-Lab	59.4338, 2.6223, -5.4626

# Details

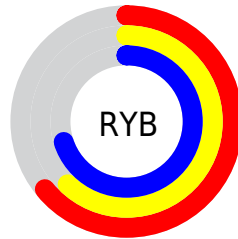
The CIELCh color  $66, 11.978, 303.707$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $72, 11.720, 122.420$ , and the grayscale version is  $66, 0.008, 296.813$ .

A 20% lighter version of the original color is  $86, 11.853, 303.022$ , and  $46, 11.590, 303.262$  is the 20% darker color. If you saturate the color by 10%, you get  $60, 22.513, 304.350$ , and if you desaturate by 10%, it is  $72, 1.790, 303.109$ .

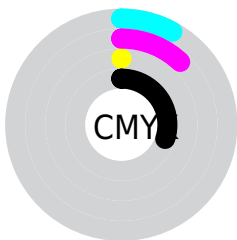
# Distribution



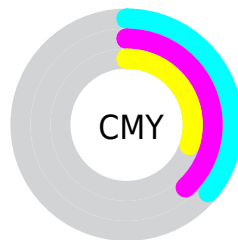
- Red (64%)
- Green (62%)
- Blue (70%)



- Red (64%)
- Yellow (62%)
- Blue (70%)



- Cyan (8%)
- Magenta (12%)
- Yellow (0%)
- Black (30%)



- Cyan (36%)
- Magenta (38%)
- Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 66, 11.978, 303.707 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 66, 11.978, 303.707 by changing the saturation by 10% instead.



■ 66, 11.978,  
303.707

■ 66, 11.978,  
303.707

■ 100, 11.978,  
303.707

■ 56, 11.978,  
303.707

■ 86, 11.978,  
303.707

■ 46, 11.978,  
303.707

■ 96, 11.978,  
303.707

■ 36, 11.978,  
303.707

■ 26, 11.978,  
303.707

■ 16, 11.978,  
303.707

■ 6, 11.978, 303.707

■ 0, 11.978, 303.707

66, 11.978,  
303.707

66, 11.978,  
303.707

60, 22.513,  
304.350

72, 1.790, 303.109

55, 33.387,  
305.067

77, 8.049, 122.648

49, 44.546,  
305.850

83, 17.554,  
122.210

44, 55.870,  
306.676

88, 26.740,  
121.833

38, 67.111,  
307.498

94, 35.627,  
121.507

34, 77.817,  
308.236

97, 39.310,  
118.154

29, 87.247,  
308.762

98, 38.650,  
111.588

26, 94.418,

98, 38.521,  
107.239

308.913

■ 24, 98.631,  
308.810

# Harmonies

# Complementary

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



66, 11.978, 303.707



72, 11.720, 122.420

# Rectangle

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



66, 11.978, 303.707



66, 11.978, 353.707



66, 11.978, 123.707



66, 11.978, 173.707

# Sweetspot

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



66, 11.976, 303.704



89, 4.978, 303.250



69, 6.287, 234.680



47, 3.570, 303.294



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



66, 11.976, 303.704



82, 17.705, 303.856



67, 13.307, 319.814



35, 5.739, 303.556



20, 88.008, 308.927



1, 13.555, 300.188



# Inverse Universe

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



67, 11.124, 336.461



84, 16.407, 336.647



71, 13.230, 138.767



35, 5.342, 336.276



33, 61.950, 347.037

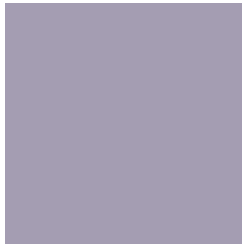


2, 11.880, 340.584



# Previews

## White Background



This preview shows how the CIELCh color 66, 11.978, 303.707 looks on a white 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

# Black Background



This preview shows how the CIE LCh color 66, 11.978, 303.707 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

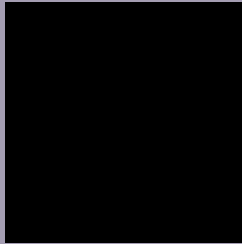
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

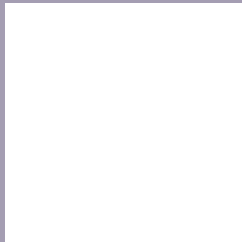
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 66, 11.978, 303.707**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 66, 11.978, 303.707.



This preview shows how white text looks on a background with the CIELCh color 66, 11.978, 303.707.

# 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

66, 11.978, 303.707


### Protanopia

66, 11.093, 289.471

### Deuteranopia

66, 13.042, 311.163





**Tritanopia**  
66, 7.479, 305.314

# Trichromacy



**Original Color**  
66, 11.978, 303.707

**Protanomaly**  
66, 11.693, 294.946

**Deuteranomaly**  
66, 12.921, 309.613

**Tritanomaly**  
66, 9.098, 302.791

# Monochromacy



**Original Color**  
66, 11.978, 303.707

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
66, 4.591, 304.812

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 11.978, 303.707 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(164, 157, 178)` looks like.

```
.text, #text, p{  
    color:rgb(164, 157, 178)  
}
```

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(164, 157, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 157, 178) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 11.978, 303.707 is called "border". The border property can be set on classes, ids or directly on the HTML element.

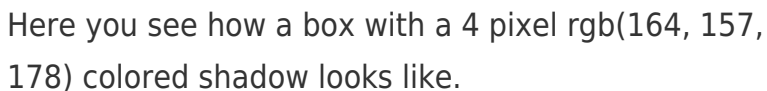
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(164, 157, 178) }
```

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

```
.border{ border-color:rgb(164, 157, 178) }
```

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



Here you see how a box with a 4 pixel `rgb(164, 157, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(164, 157, 178); -webkit-box-shadow:4px 4px 4px 4px rgb(164, 157, 178); box-shadow:4px 4px 4px 4px rgb(164, 157, 178) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 11.978, 303.707 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 157, 178) }
```

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

```
.background{ background-color: rgb(164,  
157, 178) }
```

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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