

# Converting Colors

CIELCh(63, 13.383, 324.403)

Have a look what the booklet for  
CIELCh(63, 13.383, 324.403)  
contains.

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# **Color**

**CIELCh(63, 12.874, 325.040)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A693A6
RGB	166, 147, 166
RGB Percent	65%, 58%, 65%
CMY	0.3502, 0.4247, 0.3502
CMYK	0.00, 0.11, 0.00, 0.35
HSL	300°, 10%, 61%
HSV	300°, 11%, 65%
XYZ	32.9005, 31.5869, 40.2890
YIQ	154.8470, 5.2250, 9.9370

# Conversions

## Conversions Part 2

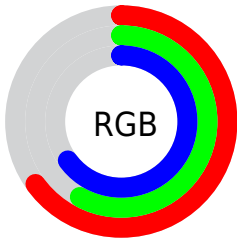
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	166, 147, 166
Decimal	10916774
CIE <sub>Lab</sub>	63.00, 10.55, -7.38
CIE <sub>LCh</sub>	63, 12.874, 325.040
Yxy	31.5869, 0.3140, 0.3015
Android (android.graphics.Color)	4289106854 (0xFFA693A6)
YUV	154.8470, 5.4984, 9.7812
Hunter-Lab	56.2022, 6.1391, -3.1609

# Details

The CIELCh color  $63, 12.874, 325.040$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $66, 12.856, 143.785$ , and the grayscale version is  $64, 0.008, 296.813$ .

A 20% lighter version of the original color is  $83, 12.832, 324.917$ , and  $43, 13.078, 325.249$  is the 20% darker color. If you saturate the color by 10%, you get  $59, 24.176, 325.585$ , and if you desaturate by 10%, it is  $67, 1.636, 324.383$ .

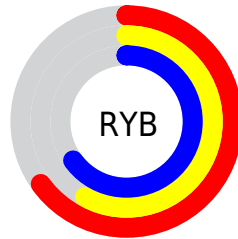
# Distribution



Red (65%)

Green (58%)

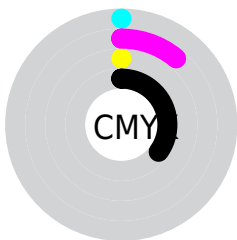
Blue (65%)



Red (65%)

Yellow (58%)

Blue (65%)

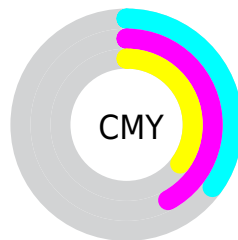


Cyan (0%)

Magenta (11%)

Yellow (0%)

Black (35%)



Cyan (35%)

Magenta (42%)


Yellow (35%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 63, 12.874, 325.040 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 63, 12.874, 325.040 by changing the saturation by 10% instead.





 63, 12.874,  
325.040


 63, 12.874,  
325.040


 100, 12.874,  
325.040


 53, 12.874,  
325.040


 83, 12.874,  
325.040

 43, 12.874,  
325.040

 93, 12.874,  
325.040

 33, 12.874,  
325.040

 23, 12.874,  
325.040

 13, 12.874,  
325.040

 3, 12.874, 325.040

 0, 12.874, 325.040

63, 12.874,  
325.040

63, 12.874,  
325.040

59, 24.176,  
325.585

67, 1.636, 324.383

55, 35.366,  
326.111

72, 9.409, 144.015

51, 46.185,  
326.609

76, 20.190,  
143.489

48, 56.295,  
327.064

81, 30.665,  
142.992

45, 65.296,  
327.458

86, 40.815,  
142.522

43, 72.768,  
327.778

90, 50.638,  
142.079


41, 78.357,  
328.012


93, 55.776,  
141.852

40, 81.888,

93, 55.776,  
141.852

328.158

 93, 55.776,  
141.852

 39, 83.688,  
328.231

# Harmonies

# Complementary

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



63, 12.874, 325.040



66, 12.856, 143.785

# Rectangle

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



63, 12.874, 325.040



63, 12.874, 15.040



63, 12.874, 145.040



63, 12.874, 195.040

# Sweetspot

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



63, 12.872, 325.040



84, 4.134, 324.540



61, 10.507, 290.706



44, 3.129, 324.595



93, 0.011, 296.813



45, 0.006, 296.813





# Same Dimension

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



63, 12.872, 325.040



78, 19.402, 325.194



63, 9.183, 343.661



32, 6.267, 324.917



34, 76.022, 328.231



2, 9.704, 324.437



# Inverse Universe

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



62, 7.510, 20.073



77, 11.428, 20.297



66, 9.058, 161.865



32, 3.629, 19.900



30, 68.062, 39.263

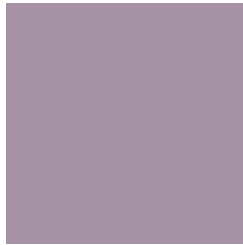


1, 5.464, 19.402



# Previews

## White Background



This preview shows how the CIELCh color 63, 12.874, 325.040 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 63, 12.874, 325.040 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

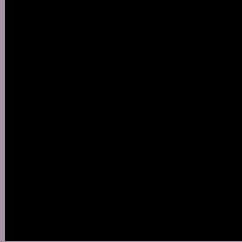
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

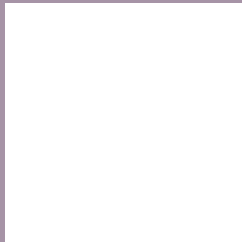
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 63, 12.874, 325.040**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 63, 12.874, 325.040.



This preview shows how white text looks on a background with the CIELCh color 63, 12.874, 325.040.

# 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

63, 12.874, 325.040

### Protanopia

63, 10.080, 289.194

### Deuteranopia

63, 10.756, 318.165





**Tritanopia**  
63, 8.996, 337.204

# Trichromacy



**Original Color**  
63, 12.874, 325.040

**Protanomaly**  
63, 11.001, 304.937

**Deuteranomaly**  
63, 11.120, 321.678

**Tritanomaly**  
63, 9.782, 332.414

# Monochromacy



**Original Color**  
63, 12.874, 325.040

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
64, 4.762, 324.632

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 63, 12.874, 325.040 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(166, 147, 166)` looks like.

```
.text, #text, p{  
    color:rgb(166, 147, 166)  
}
```

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(166, 147, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 147, 166) }
```

## Border

The CSS property to change the border of an element to CIELCh 63, 12.874, 325.040 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(166, 147, 166) }
```

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

```
.border{ border-color:rgb(166, 147, 166) }
```

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

Here you see how a box with a 4 pixel rgb(166, 147, 166) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 147, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 147, 166);  
box-shadow:4px 4px 4px 4px rgb(166, 147,  
166) }
```

# Background

The CSS property to change the background color of an element to CIELCh 63, 12.874, 325.040 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 147, 166) }
```

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

```
.background{ background-color: rgb(166,  
147, 166) }
```

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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