

# Converting Colors

CIELCh(51, 33.536, 328.850)

Have a look what the booklet for  
CIELCh(51, 33.536, 328.850)  
contains.

<b>CIELCh(51, 33.400, 329.047)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

**Color**

**CIELCh(51, 33.400, 329.047)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9C6897
RGB	156, 104, 151
RGB Percent	61%, 41%, 59%
CMY	0.3874, 0.5914, 0.4071
CMYK	0.00, 0.33, 0.03, 0.39
HSL	306°, 21%, 51%
HSV	306°, 33%, 61%
XYZ	24.3220, 19.2686, 31.8012
YIQ	124.9060, 15.9050, 25.6410

# Conversions

## Conversions Part 2

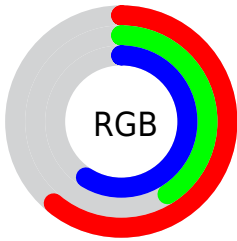
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	156, 104, 151
Decimal	10250391
CIE <sub>Lab</sub>	51.00, 28.64, -17.18
CIE <sub>LCh</sub>	51, 33.400, 329.047
Yxy	19.2686, 0.3226, 0.2556
Android (android.graphics.Color)	4288440471 (0xFF9C6897)
YUV	124.9060, 12.8643, 27.2694
Hunter-Lab	43.8960, 22.0856, -12.2264

# Details

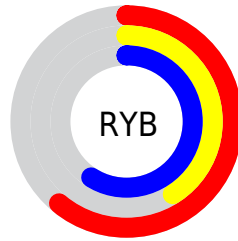
The CIELCh color  $51, 33.400, 329.047$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $60, 33.382, 144.755$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 33.188, 329.071$ , and  $31, 33.752, 329.247$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 42.999, 329.614$ , and if you desaturate by 10%, it is  $55, 23.430, 328.471$ .

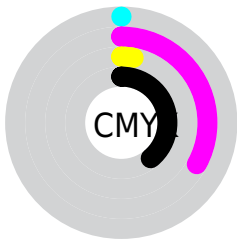
# Distribution



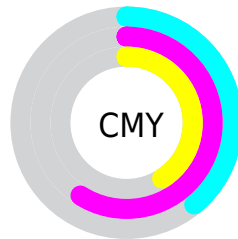
- Red (61%)
- Green (41%)
- Blue (59%)



- Red (61%)
- Yellow (41%)
- Blue (59%)



- Cyan (0%)
- Magenta (33%)
- Yellow (3%)
- Black (39%)




- Cyan (39%)
- Magenta (59%)
- Yellow (41%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 33.400, 329.047 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 51, 33.400, 329.047 by changing the saturation by 10% instead.





 51, 33.400,  
329.047


 51, 33.400,  
329.047


 100, 33.400,  
329.047


 41, 33.400,  
329.047


 71, 33.400,  
329.047

 31, 33.400,  
329.047

 81, 33.400,  
329.047

 21, 33.400,  
329.047

 91, 33.400,  
329.047

 11, 33.400,  
329.047

 1, 33.400, 329.047

 0, 33.400, 329.047

51, 33.400,  
329.047

51, 33.400,  
329.047

47, 42.999,  
329.614

55, 23.430,  
328.471

44, 51.913,  
330.164

59, 13.336,  
327.890

41, 59.759,  
330.690

63, 3.288, 327.272

67, 6.601, 146.828

39, 66.134,  
331.188

72, 16.263,  
146.275

38, 70.703,  
331.659

76, 25.661,  
145.760

37, 73.306,  
332.115

80, 34.777,  
145.272

36, 74.382,  
332.416

85, 43.611,  
144.810

■ 89, 52.167,  
144.375

# Harmonies

# Complementary

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



51, 33.400, 329.047



60, 33.382, 144.755

# Rectangle

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



51, 33.400, 329.047



51, 33.400, 19.047



51, 33.400, 149.047



51, 33.400, 199.047

# Sweetspot

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



51, 33.398, 329.047



77, 12.446, 327.709



46, 30.977, 296.944



40, 8.478, 327.785



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



51, 33.398, 329.047



62, 49.538, 329.473



50, 24.389, 351.781



31, 5.715, 327.653



33, 69.697, 332.380



1, 7.331, 327.769



# Inverse Universe

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



51, 33.398, 329.047



62, 49.538, 329.473



60, 22.975, 165.198



31, 5.715, 327.653



33, 69.697, 332.380

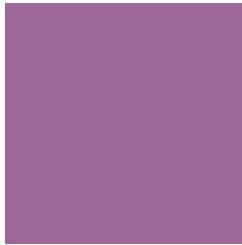


1, 7.331, 327.769



# Previews

## White Background



This preview shows how the CIELCh color 51, 33.400, 329.047 looks on a white background.

## Color Contrast Check

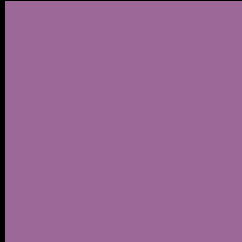
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIELCh color 51, 33.400, 329.047 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

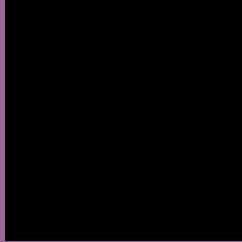
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 33.400, 329.047

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 33.400, 329.047.



This preview shows how white text looks on a background with the CIELCh color 51, 33.400, 329.047.

# 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

51, 33.400, 329.047

### Protanopia

51, 25.173, 285.624

### Deuteranopia

51, 16.940, 293.541





**Tritanopia**  
51, 17.605, 6.444

# Trichromacy



**Original Color**  
51, 33.400, 329.047

**Protanomaly**  
51, 26.802, 303.283

**Deuteranomaly**  
51, 21.720, 311.587

**Tritanomaly**  
51, 21.982, 346.919

# Monochromacy



**Original Color**  
51, 33.400, 329.047

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 12.896, 326.625

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 33.400, 329.047 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(156, 104, 151)` looks like.

```
.text, #text, p{  
    color:rgb(156, 104, 151)  
}
```

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(156, 104, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 104, 151) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 33.400, 329.047 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(156, 104, 151) }
```

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

```
.border{ border-color:rgb(156, 104, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 104, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 104, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 104, 151);  
box-shadow:4px 4px 4px 4px rgb(156, 104,  
151) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 33.400, 329.047 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 104, 151) }
```

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

```
.background{ background-color: rgb(156,  
104, 151) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor