

# Converting Colors

CIELCh(51, 13.326, 357.489)

Have a look what the booklet for  
CIELCh(51, 13.326, 357.489)  
contains.

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**Color**

**CIELCh(51, 13.312, 358.011)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	90727B
RGB	144, 114, 123
RGB Percent	56%, 45%, 48%
CMY	0.4368, 0.5544, 0.5191
CMYK	0.00, 0.21, 0.15, 0.44
HSL	342°, 12%, 50%
HSV	342°, 21%, 56%
XYZ	20.9637, 19.2686, 21.2330
YIQ	123.9960, 14.9910, 9.1590

# Conversions

## Conversions Part 2

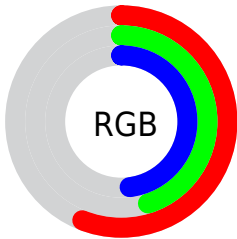
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	144, 114, 123
Decimal	9466491
CIE Lab	51.00, 13.30, -0.46
CIE LCh	51, 13.312, 358.011
Yxy	19.2686, 0.3411, 0.3135
Android (android.graphics.Color)	4287656571 (0xFF90727B)
YUV	123.9960, -0.4910, 17.5435
Hunter-Lab	43.8960, 8.4293, 2.0480

# Details

The CIELCh color  $51, 13.312, 358.011$  is a dark color, and the websafe version is hex  $996666$ . A complement of this color would be  $57, 12.551, 174.051$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 13.175, 358.846$ , and  $31, 13.077, 359.113$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 19.992, 359.274$ , and if you desaturate by 10%, it is  $55, 6.805, 356.917$ .

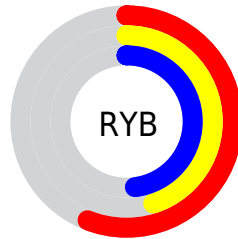
# Distribution



Red (56%)

Green (45%)

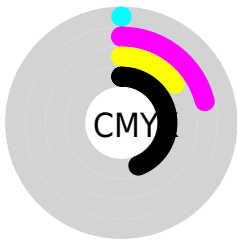
Blue (48%)



Red (56%)

Yellow (45%)

Blue (48%)

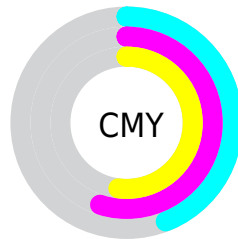


Cyan (0%)

Magenta (21%)

Yellow (15%)

Black (44%)



Cyan (44%)

Magenta (55%)


Yellow (52%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 13.312, 358.011 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, 13.312, 358.011 by changing the saturation by 10% instead.





 51, 13.312,  
358.011


 51, 13.312,  
358.011


 100, 13.312,  
358.011


 41, 13.312,  
358.011


 71, 13.312,  
358.011

 31, 13.312,  
358.011


 81, 13.312,  
358.011

 21, 13.312,  
358.011

 91, 13.312,  
358.011

 11, 13.312,  
358.011

 1, 13.312, 358.011

 0, 13.312, 358.011

51, 13.312,  
358.011

51, 13.312,  
358.011

47, 19.992,  
359.274

55, 6.805, 356.917

43, 26.741, 0.762

59, 0.539, 355.345

40, 33.383, 2.564

64, 5.461, 175.281

37, 39.674, 4.788

68, 11.192,  
174.509

34, 45.330, 7.576

72, 16.662,  
173.832

32, 50.090, 11.088

76, 21.887,  
173.223

30, 53.834, 15.452

30, 56.816, 19.847

81, 26.885,  
172.667

85, 31.677,  
172.156

■ 89, 36.281,  
171.686

# Harmonies

# Complementary

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



51, 13.312, 358.011



57, 12.551, 174.051

# Rectangle

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



51, 13.312, 358.011



51, 13.312, 48.011



51, 13.312, 178.011



51, 13.312, 228.011

# Sweetspot

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



51, 13.310, 358.015



72, 4.597, 356.415



51, 19.238, 316.058



38, 3.076, 356.476



88, 0.010, 296.813



40, 0.006, 296.813





# Same Dimension

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



51, 13.310, 358.015



63, 19.849, 358.575



52, 10.818, 37.416



28, 3.505, 356.739



28, 54.270, 19.498



0, 2.326, 355.955



# Inverse Universe

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



51, 13.310, 358.015



63, 19.849, 358.575



56, 9.448, 218.177



28, 3.505, 356.739



28, 54.270, 19.498

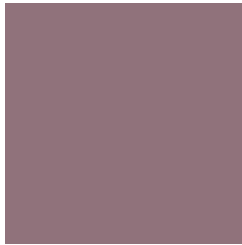


0, 2.326, 355.955



# Previews

## White Background



This preview shows how the CIELCh color 51, 13.312, 358.011 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 CIE LCh color 51, 13.312, 358.011 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

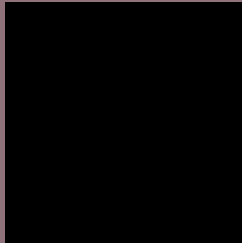
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 13.312, 358.011

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 13.312, 358.011.



This preview shows how white text looks on a background with the CIELCh color 51, 13.312, 358.011.

# 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, 13.312, 358.011

### Protanopia

51, 3.529, 297.037

### Deuteranopia

51, 6.530, 359.305





**Tritanopia**  
51, 13.130, 0.377

# Trichromacy



**Original Color**  
51, 13.312, 358.011

**Protanomaly**  
51, 6.333, 340.058

**Deuteranomaly**  
51, 9.248, 358.386

**Tritanomaly**  
51, 13.130, 0.377

# Monochromacy



**Original Color**  
51, 13.312, 358.011

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 5.020, 352.383

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 13.312, 358.011 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(144, 114, 123)` looks like.

```
.text, #text, p{  
    color:rgb(144, 114, 123)  
}
```

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(144, 114, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 114, 123) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 13.312, 358.011 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(144, 114, 123) }
```

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

```
.border{ border-color:rgb(144, 114, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 114, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 114, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 114, 123);  
box-shadow:4px 4px 4px 4px rgb(144, 114,  
123) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 13.312, 358.011 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 114, 123) }
```

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

```
.background{ background-color: rgb(144,  
114, 123) }
```

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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