

# Converting Colors

CIELCh(51, 9.631, 315.981)

Have a look what the booklet for  
CIELCh(51, 9.631, 315.981) contains.

<b>CIELCh(51, 9.630, 315.109)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(51, 9.630, 315.109)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	807685
RGB	128, 118, 133
RGB Percent	50%, 46%, 52%
CMY	0.4977, 0.5369, 0.4781
CMYK	0.04, 0.11, 0.00, 0.48
HSL	280°, 6%, 49%
HSV	280°, 11%, 52%
XYZ	19.6431, 19.2686, 24.9055
YIQ	122.7000, 1.1450, 6.7850

# Conversions

## Conversions Part 2

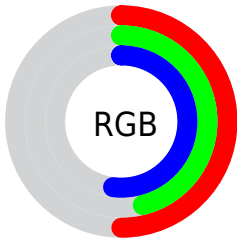
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 118, 133
Decimal	8418949
CIE <sub>Lab</sub>	51.00, 6.82, -6.80
CIE <sub>LCh</sub>	51, 9.630, 315.109
Yxy	19.2686, 0.3078, 0.3019
Android (android.graphics.Color)	4286609029 (0xFF807685)
YUV	122.7000, 5.0779, 4.6481
Hunter-Lab	43.8960, 3.0592, -2.9125

# Details

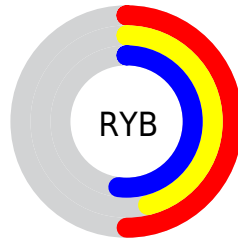
The CIELCh color  $51, 9.630, 315.109$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $54, 9.533, 134.217$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 9.685, 315.674$ , and  $31, 9.738, 314.530$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 18.352, 315.534$ , and if you desaturate by 10%, it is  $55, 1.078, 314.602$ .

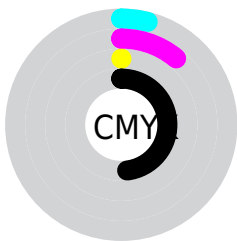
# Distribution



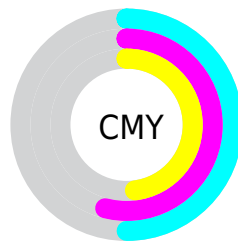
- Red (50%)
- Green (46%)
- Blue (52%)



- Red (50%)
- Yellow (46%)
- Blue (52%)



- Cyan (4%)
- Magenta (11%)
- Yellow (0%)
- Black (48%)



- Cyan (50%)
- Magenta (54%)
- Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 51, 9.630, 315.109 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, 9.630, 315.109 by changing the saturation by 10% instead.



■ 51, 9.630, 315.109

■ 51, 9.630, 315.109

■ 100, 9.630,  
315.109

■ 41, 9.630, 315.109

■ 71, 9.630, 315.109

■ 31, 9.630, 315.109

■ 81, 9.630, 315.109

■ 21, 9.630, 315.109

■ 91, 9.630, 315.109

■ 11, 9.630, 315.109

■ 1, 9.630, 315.109

■ 0, 9.630, 315.109

■ 51, 9.630, 315.109

■ 51, 9.630, 315.109

■ 47, 18.352,  
315.534

■ 55, 1.078, 314.602

■ 59, 7.263, 134.359

43, 27.184,  
315.962

63, 15.377,  
134.001

39, 36.014,  
316.378

67, 23.262,  
133.679

36, 44.670,  
316.755

71, 30.917,  
133.389

32, 52.894,  
317.056

75, 38.351,  
133.128

29, 60.331,  
317.231

79, 45.572,  
132.895

27, 66.549,  
317.217

84, 52.591,  
132.687

24, 71.120,  
316.948

88, 59.419,  
132.503

23, 74.226,  
316.603

# Harmonies

# Complementary

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



51, 9.630, 315.109



54, 9.533, 134.217

# Rectangle

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



51, 9.630, 315.109



51, 9.630, 5.109



51, 9.630, 135.109



51, 9.630, 185.109

# Sweetspot

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



51, 9.628, 315.108



69, 3.157, 314.741



52, 5.976, 271.246



36, 2.384, 314.780



86, 0.010, 296.813



37, 0.005, 296.813



# Same Dimension

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



51, 9.628, 315.108



64, 14.894, 315.237



51, 9.540, 329.469



26, 4.793, 315.017



22, 72.988, 316.625



0, 1.137, 314.666





# Inverse Universe

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



51, 6.745, 354.672



64, 10.456, 354.988



54, 9.517, 148.174



26, 3.352, 354.452



27, 52.083, 16.230



0, 0.790, 353.686



# Previews

## White Background



This preview shows how the CIELCh color 51, 9.630, 315.109 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, 9.630, 315.109 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

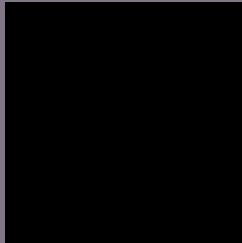
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 9.630, 315.109

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 9.630, 315.109.



This preview shows how white text looks on a background with the CIELCh color 51, 9.630, 315.109.

# 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, 9.630, 315.109

### Protanopia

51, 8.164, 288.542

### Deuteranopia

51, 9.630, 315.109



**Tritanopia**  
51, 6.163, 321.696



# Trichromacy



## Original Color

51, 9.630, 315.109

## Protanomaly

51, 8.269, 299.245

## Deuteranomaly

51, 9.630, 315.109

## Tritanomaly

51, 7.182, 316.914

# Monochromacy



## Original Color

51, 9.630, 315.109

## Achromatopsia

52, 0.007, 296.813

## Achromatomaly

51, 3.859, 314.824

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 9.630, 315.109 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(128, 118, 133)` looks like.

```
.text, #text, p{  
    color:rgb(128, 118, 133)  
}
```

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(128, 118, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 118, 133) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 9.630, 315.109 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(128, 118, 133) }
```

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

```
.border{ border-color:rgb(128, 118, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 118, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 118, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 118, 133);  
box-shadow:4px 4px 4px 4px rgb(128, 118,  
133) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 9.630, 315.109 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 118, 133) }
```

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

```
.background{ background-color: rgb(128,  
118, 133) }
```

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