

# Converting Colors

CIELCh(51, 8.416, 28.178)

Have a look what the booklet for  
CIELCh(51, 8.416, 28.178) contains.

<b>CIELCh(51, 8.416, 28.179)</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, 8.416, 28.179)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	897573
RGB	137, 117, 115
RGB Percent	54%, 46%, 45%
CMY	0.4629, 0.5413, 0.5491
CMYK	0.00, 0.15, 0.16, 0.46
HSL	5°, 9%, 49%
HSV	5°, 16%, 54%
XYZ	19.7622, 19.2686, 18.8885
YIQ	122.7520, 12.5620, 3.6180

# Conversions

## Conversions Part 2

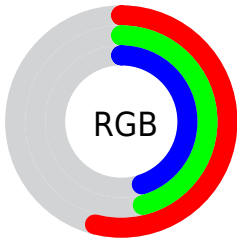
Format	Color
R <sub>Y</sub> B	137, 117, 115
Decimal	9008499
CIE Lab	51.00, 7.42, 3.97
CIE LCh	51, 8.416, 28.179
Yxy	19.2686, 0.3412, 0.3327
Android (android.graphics.Color)	4287198579 (0xFF897573)
YUV	122.7520, -3.8217, 12.4955
Hunter-Lab	43.8960, 3.5434, 5.2147

# Details

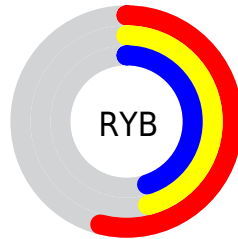
The CIELCh color  $51, 8.416, 28.179$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $55, 7.589, 207.476$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 8.585, 27.329$ , and  $31, 8.420, 29.298$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 14.211, 28.735$ , and if you desaturate by 10%, it is  $55, 3.051, 27.736$ .

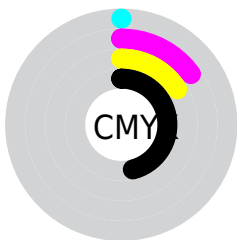
# Distribution



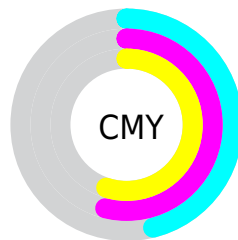
- Red (54%)
- Green (46%)
- Blue (45%)



- Red (54%)
- Yellow (46%)
- Blue (45%)



- Cyan (0%)
- Magenta (15%)
- Yellow (16%)
- Black (46%)



- Cyan (46%)
- Magenta (54%)
- Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 51, 8.416, 28.179 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, 8.416, 28.179 by changing the saturation by 10% instead.



■ 51, 8.416, 28.179

■ 51, 8.416, 28.179

■ 100, 8.416, 28.179

■ 41, 8.416, 28.179

■ 71, 8.416, 28.179

■ 31, 8.416, 28.179

■ 81, 8.416, 28.179

■ 21, 8.416, 28.179

■ 91, 8.416, 28.179

■ 11, 8.416, 28.179

■ 1, 8.416, 28.179

■ 0, 8.416, 28.179

■ 51, 8.416, 28.179

■ 51, 8.416, 28.179

■ 47, 14.211, 28.735

■ 55, 3.051, 27.736

■ 44, 20.451, 29.477

■ 59, 1.908, 207.850

40, 27.120, 30.479

62, 6.498, 207.540

37, 34.161, 31.808

66, 10.758,  
207.430

34, 41.459, 33.514

70, 14.726,  
207.387

32, 48.811, 35.593

30, 55.838, 37.877

74, 18.436,  
207.388

29, 61.668, 39.773

78, 21.919,  
207.420

28, 63.600, 40.530

82, 25.203,  
207.475

86, 28.313,  
207.546

# Harmonies

# Complementary

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



51, 8.416, 28.179



55, 7.589, 207.476

# Rectangle

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



51, 8.416, 28.179



51, 8.416, 78.179



51, 8.416, 208.179



51, 8.416, 258.179

# Sweetspot

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



51, 8.415, 28.190



70, 3.113, 27.682



51, 14.613, 327.648



36, 2.121, 27.717



87, 0.010, 296.813



38, 0.005, 296.813



# Same Dimension

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



51, 8.415, 28.190



64, 12.525, 28.356



54, 8.297, 81.863



27, 2.889, 27.883



27, 61.887, 40.375



0, 1.296, 27.705





# Inverse Universe

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



55, 7.589, 207.476



69, 11.033, 207.433



52, 8.136, 266.082



28, 2.729, 207.616



46, 27.723, 211.920

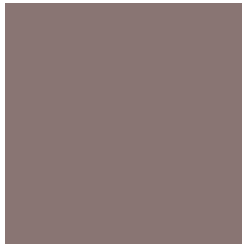


1, 1.296, 207.724



# Previews

## White Background



This preview shows how the CIELCh color 51, 8.416, 28.179 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, 8.416, 28.179 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

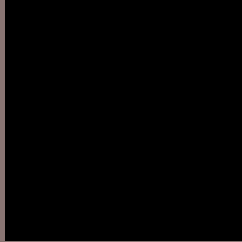
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 51, 8.416, 28.179**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 51, 8.416, 28.179.



This preview shows how white text looks on a background with the CIELCh color 51, 8.416, 28.179.

# 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, 8.416, 28.179

### Protanopia

51, 2.826, 74.585

### Deuteranopia

51, 7.994, 28.553



**Tritanopia**  
51, 10.329, 350.269



# Trichromacy



**Original Color**  
51, 8.416, 28.179

**Protanomaly**  
51, 4.362, 51.769

**Deuteranomaly**  
51, 7.994, 28.553

**Tritanomaly**  
51, 9.462, 2.685

# Monochromacy



**Original Color**  
51, 8.416, 28.179

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
51, 2.896, 31.122

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 8.416, 28.179 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(137, 117, 115)` looks like.

```
.text, #text, p{  
    color:rgb(137, 117, 115)  
}
```

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(137, 117, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 117, 115) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 8.416, 28.179 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(137, 117, 115) }
```

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

```
.border{ border-color:rgb(137, 117, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 117, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 117, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 117, 115);  
box-shadow:4px 4px 4px 4px rgb(137, 117,  
115) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 8.416, 28.179 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 117, 115) }
```

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

```
.background{ background-color: rgb(137,  
117, 115) }
```

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