

# Converting Colors

CIELCh(52, 4.398, 60.984)

Have a look what the booklet for  
CIELCh(52, 4.398, 60.984) contains.

<b>CIELCh(52, 4.362, 61.025)</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(52, 4.362, 61.025)**

# Conversions

## Conversions Part 1

Format	Color
Hex	837B76
RGB	131, 123, 118
RGB Percent	51%, 48%, 46%
CMY	0.4880, 0.5194, 0.5390
CMYK	0.00, 0.06, 0.10, 0.49
HSL	23°, 5%, 49%
HSV	23°, 10%, 51%
XYZ	19.5637, 20.1443, 19.8610
YIQ	124.8220, 6.3730, 0.1410

# Conversions

## Conversions Part 2

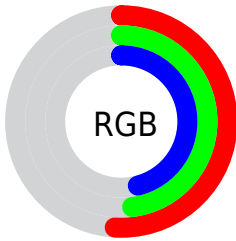
<b>Format</b>	<b>Color</b>
<b>RYB</b>	131, 126, 118
Decimal	8616822
CIELab	52.00, 2.11, 3.82
CIElCh	52, 4.362, 61.025
Yxy	20.1443, 0.3284, 0.3382
Android (android.graphics.Color)	4286806902 (0xFF837B76)
YUV	124.8220, -3.3632, 5.4181
Hunter-Lab	44.8824, -0.7384, 5.1812

# Details

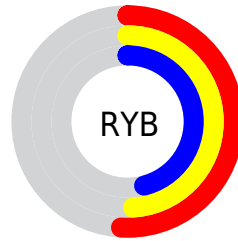
The CIELCh color  $52, 4.362, 61.025$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $52, 4.190, 243.153$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $72, 4.365, 57.887$ , and  $32, 4.410, 54.601$  is the 20% darker color. If you saturate the color by 10%, you get  $49, 9.026, 60.169$ , and if you desaturate by 10%, it is  $55, 0.026, 254.854$ .

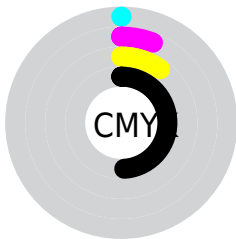
# Distribution



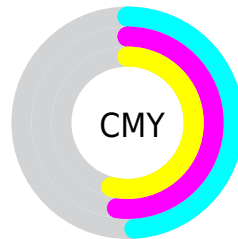
- Red (51%)
- Green (48%)
- Blue (46%)



- Red (51%)
- Yellow (49%)
- Blue (46%)



- Cyan (0%)
- Magenta (6%)
- Yellow (10%)
- Black (49%)



- Cyan (49%)
- Magenta (52%)
- Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 52, 4.362, 61.025 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 52, 4.362, 61.025 by changing the saturation by 10% instead.



 52, 4.362, 61.025       52, 4.362, 61.025

 100, 4.362, 61.025       42, 4.362, 61.025

 72, 4.362, 61.025       32, 4.362, 61.025

 82, 4.362, 61.025       22, 4.362, 61.025

 92, 4.362, 61.025       12, 4.362, 61.025

 2, 4.362, 61.025

 0, 4.362, 61.025

 52, 4.362, 61.025       52, 4.362, 61.025

 49, 9.026, 60.169       55, 0.026, 254.854

 47, 13.994, 59.293       57, 4.164, 243.076

44, 19.284, 58.451

60, 8.082, 243.971

42, 24.902, 57.655

63, 11.804,  
244.878

40, 30.823, 56.904

65, 15.354,  
245.773

38, 36.963, 56.167

36, 43.119, 55.355

68, 18.752,  
246.646

34, 48.862, 54.259

71, 22.017,  
247.494

32, 54.271, 53.222

73, 25.165,  
248.313

76, 28.209,  
249.103

# Harmonies

# Complementary

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



52, 4.362, 61.025



52, 4.190, 243.153

# Rectangle

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



52, 4.362, 61.025



52, 4.362, 111.025



52, 4.362, 241.025



52, 4.362, 291.025

# Sweetspot

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



52, 4.362, 61.048



69, 1.602, 61.513



51, 7.018, 338.537



36, 1.227, 61.493



86, 0.010, 296.813



37, 0.005, 296.813



# Same Dimension

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



52, 4.362, 61.048



66, 6.603, 60.847



54, 6.613, 103.960



27, 2.498, 61.116



32, 54.133, 53.227



0, 0.584, 62.045





# Inverse Universe

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



52, 4.190, 243.153



66, 6.275, 243.407



50, 6.725, 286.069



27, 2.408, 243.069



33, 33.929, 268.555



0, 0.584, 242.062



# Previews

## White Background



This preview shows how the CIELCh color 52, 4.362, 61.025 looks on a white background.

## Color Contrast Check

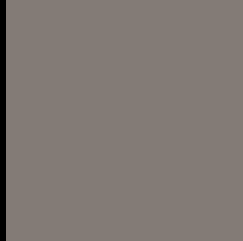
Large Text (above 18pt) WCAG AA ✓ Pass

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 52, 4.362, 61.025 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

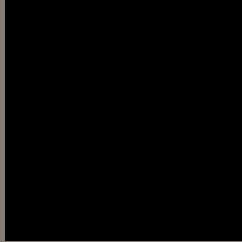
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 52, 4.362, 61.025

## Background



This preview shows how black text looks on a background with the CIELCh color 52, 4.362, 61.025.



This preview shows how white text looks on a background with the CIELCh color 52, 4.362, 61.025.

# 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

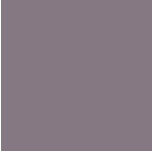
52, 4.362, 61.025

### Protanopia

52, 3.529, 74.435

### Deuteranopia

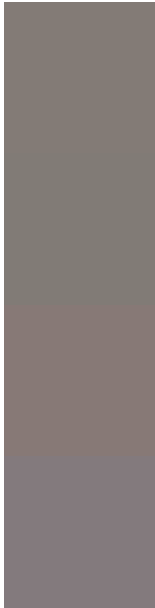
52, 7.535, 28.961



**Tritanopia**  
52, 6.839, 330.359



# Trichromacy



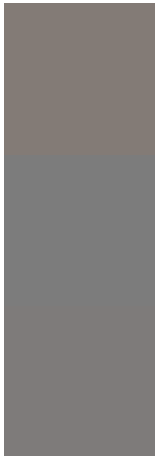
**Original Color**  
52, 4.362, 61.025

**Protanomaly**  
52, 3.781, 69.325

**Deuteranomaly**  
52, 6.024, 36.639

**Tritanomaly**  
52, 4.027, 354.220

# Monochromacy



**Original Color**  
52, 4.362, 61.025

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 1.331, 45.002

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 52, 4.362, 61.025 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(131, 123, 118)` looks like.

```
.text, #text, p{  
    color:rgb(131, 123, 118)  
}
```

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(131, 123, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 123, 118) }
```

## Border

The CSS property to change the border of an element to CIELCh 52, 4.362, 61.025 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(131, 123, 118) }
```

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

```
.border{ border-color:rgb(131, 123, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 123, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 123, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 123, 118);  
box-shadow:4px 4px 4px 4px rgb(131, 123,  
118) }
```

# Background

The CSS property to change the background color of an element to CIELCh 52, 4.362, 61.025 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 123, 118) }
```

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

```
.background{ background-color: rgb(131,  
123, 118) }
```

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