

# Converting Colors

CIE LCh(52, 1.956, 23.749)

Have a look what the booklet for  
CIELCh(52, 1.956, 23.749) contains.

<b>CIELCh(52, 2.012, 19.434)</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, 2.012, 19.434)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	807B7B
RGB	128, 123, 123
RGB Percent	50%, 48%, 48%
CMY	0.4985, 0.5181, 0.5181
CMYK	0.00, 0.04, 0.04, 0.50
HSL	0°, 2%, 49%
HSV	0°, 4%, 50%
XYZ	19.5208, 20.1443, 21.5602
YIQ	124.4950, 2.9800, 1.0600

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 123, 123
Decimal	8420219
CIE Lab	52.00, 1.90, 0.67
CIE LCh	52, 2.012, 19.434
Yxy	20.1443, 0.3188, 0.3290
Android (android.graphics.Color)	4286610299 (0xFF807B7B)
YUV	124.4950, -0.7370, 3.0739
Hunter-Lab	44.8824, -0.9088, 2.9366

# Details

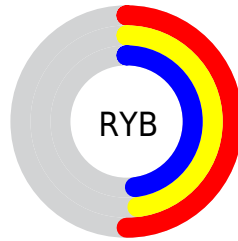
The CIELCh color  $52, 2.012, 19.434$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $53, 1.964, 199.438$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $72, 2.262, 19.376$ , and  $32, 2.207, 19.628$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 7.431, 20.282$ , and if you desaturate by 10%, it is  $56, 3.016, 199.276$ .

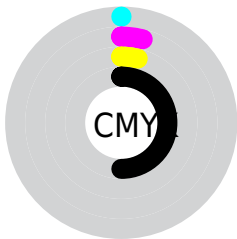
# Distribution



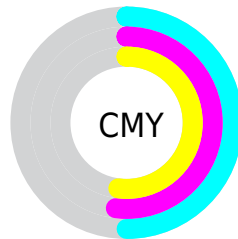
- Red (50%)
- Green (48%)
- Blue (48%)



- Red (50%)
- Yellow (48%)
- Blue (48%)



- Cyan (0%)
- Magenta (4%)
- Yellow (4%)
- Black (50%)



- Cyan (50%)
- Magenta (52%)
- Yellow (52%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 52, 2.012, 19.434 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, 2.012, 19.434 by changing the saturation by 10% instead.



■ 52, 2.012, 19.434      ■ 52, 2.012, 19.434

100, 2.012, 19.434      ■ 42, 2.012, 19.434

■ 72, 2.012, 19.434      ■ 32, 2.012, 19.434

■ 82, 2.012, 19.434      ■ 22, 2.012, 19.434

■ 92, 2.012, 19.434      ■ 12, 2.012, 19.434

■ 2, 2.012, 19.434

■ 0, 2.012, 19.434

■ 52, 2.012, 19.434      ■ 52, 2.012, 19.434

■ 48, 7.431, 20.282      ■ 56, 3.016, 199.276

■ 44, 13.264, 21.158      ■ 60, 7.680, 198.778

41, 19.503, 22.267

64, 12.017,  
198.423

37, 26.107, 23.698

68, 16.064,  
198.141

34, 32.982, 25.547

31, 39.974, 27.909

72, 19.854,  
197.913

29, 46.865, 30.832

76, 23.419,  
197.725

27, 53.349, 34.201

26, 58.580, 37.137

80, 26.787,  
197.569

84, 29.982,  
197.438

88, 33.025,  
197.327

# Harmonies

# Complementary

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



52, 2.012, 19.434



53, 1.964, 199.438

# Rectangle

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



52, 2.012, 19.434



52, 2.012, 69.434



52, 2.012, 199.434



52, 2.012, 249.434

# Sweetspot

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



52, 2.011, 19.472



68, 0.630, 18.743



52, 3.537, 324.595



36, 0.361, 18.681



85, 0.010, 296.813



36, 0.005, 296.813



# Same Dimension

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



52, 2.011, 19.472



66, 3.195, 19.591



53, 1.747, 74.815



26, 1.746, 19.621



25, 61.095, 38.356



0, 0.000, 0.000





# Inverse Universe

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



53, 1.964, 199.438



67, 3.098, 199.327



52, 1.741, 256.034



27, 1.689, 199.300



48, 29.959, 196.454



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 52, 2.012, 19.434 looks on a white background.

## Color Contrast Check

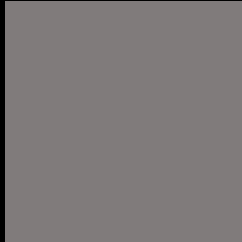
Large Text (above 18pt) WCAG AA ✓ Pass

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, 2.012, 19.434 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

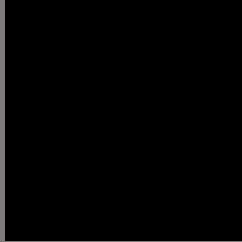
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

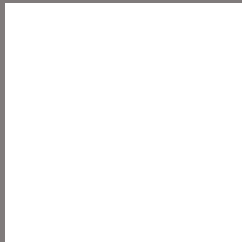
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 52, 2.012, 19.434

## Background



This preview shows how black text looks on a background with the CIELCh color 52, 2.012, 19.434.

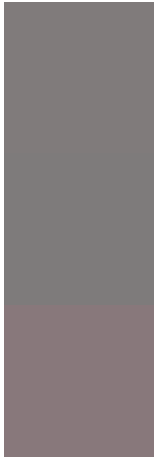


This preview shows how white text looks on a background with the CIELCh color 52, 2.012, 19.434.

# 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, 2.012, 19.434

### Protanopia

52, 1.204, 19.217

### Deuteranopia

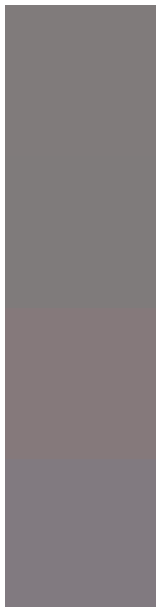
52, 6.738, 5.225



**Tritanopia**  
52, 5.942, 318.404



# Trichromacy



## Original Color

52, 2.012, 19.434

## Protanomaly

52, 1.608, 19.341

## Deuteranomaly

52, 5.004, 6.540

## Tritanomaly

52, 4.484, 328.872

# Monochromacy



## Original Color

52, 2.012, 19.434

## Achromatopsia

52, 0.007, 296.813

## Achromatomaly

52, 0.400, 18.478

# CSS Examples

## Text

The CSS property to change the color of the text to CIElCh 52, 2.012, 19.434 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, 123, 123)` looks like.

```
.text, #text, p{  
    color:rgb(128, 123, 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(128, 123, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 123, 123) }
```

## Border

The CSS property to change the border of an element to CIELCh 52, 2.012, 19.434 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, 123, 123) }
```

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

```
.border{ border-color:rgb(128, 123, 123) }
```

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

Here you see how a box with a 4 pixel rgb(128, 123, 123) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 123, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 123, 123);  
box-shadow:4px 4px 4px 4px rgb(128, 123,  
123) }
```

# Background

The CSS property to change the background color of an element to CIE LCh 52, 2.012, 19.434 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 123, 123) }
```

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

```
.background{ background-color: rgb(128,  
123, 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](#).

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