

# Converting Colors

CIELCh(52, 4.433, 86.747)

Have a look what the booklet for  
CIELCh(52, 4.433, 86.747) contains.

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# Color

**CIELCh(52, 4.897, 89.975)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	807C74
RGB	128, 124, 116
RGB Percent	50%, 49%, 45%
CMY	0.4994, 0.5151, 0.5464
CMYK	0.00, 0.03, 0.09, 0.50
HSL	40°, 5%, 48%
HSV	40°, 9%, 50%
XYZ	19.1470, 20.1443, 19.2985
YIQ	124.2840, 4.9520, -1.6400

# Conversions

## Conversions Part 2

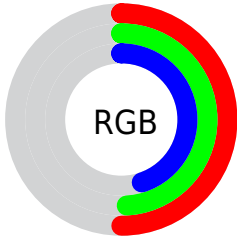
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	122, 128, 116
Decimal	8420468
CIE Lab	52.00, 0.00, 4.90
CIE LCh	52, 4.897, 89.975
Yxy	20.1443, 0.3268, 0.3438
Android (android.graphics.Color)	4286610548 (0xFF807C74)
YUV	124.2840, -4.0840, 3.2589
Hunter-Lab	44.8824, -2.3956, 5.9242

# Details

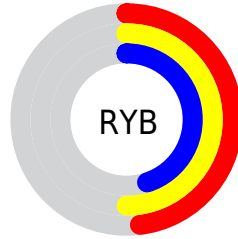
The CIELCh color  $52, 4.897, 89.975$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $50, 4.898, 272.352$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $72, 4.727, 85.858$ , and  $32, 4.767, 87.008$  is the 20% darker color. If you saturate the color by 10%, you get  $50, 10.222, 88.781$ , and if you desaturate by 10%, it is  $54, 0.319, 271.758$ .

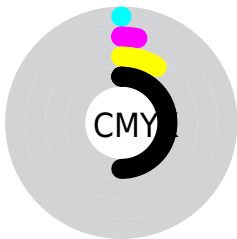
# Distribution



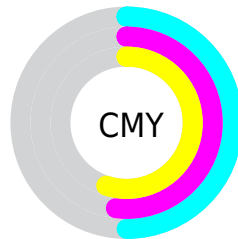
- Red (50%)
- Green (49%)
- Blue (45%)



- Red (48%)
- Yellow (50%)
- Blue (45%)



- Cyan (0%)
- Magenta (3%)
- Yellow (9%)
- Black (50%)



- Cyan (50%)
- Magenta (52%)
- Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 52, 4.897, 89.975 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, 4.897, 89.975 by changing the saturation by 10% instead.



 52, 4.897, 89.975       52, 4.897, 89.975

 100, 4.897, 89.975       42, 4.897, 89.975

 72, 4.897, 89.975       32, 4.897, 89.975


 82, 4.897, 89.975       22, 4.897, 89.975

 92, 4.897, 89.975       12, 4.897, 89.975

 2, 4.897, 89.975

 0, 4.897, 89.975

 52, 4.897, 89.975       52, 4.897, 89.975

 50, 10.222, 88.781       54, 0.319, 271.758

 49, 15.647, 87.519       55, 5.431, 272.389

■ 48, 21.154, 86.217

■ 57, 10.441,  
273.469

■ 46, 26.698, 84.877

■ 58, 15.358,  
274.511

■ 45, 32.194, 83.491

■ 43, 37.478, 82.037

■ 60, 20.188,  
275.505

■ 42, 42.271, 80.462

■ 62, 24.937,  
276.451

■ 41, 46.142, 78.665

■ 40, 49.240, 76.731

■ 63, 29.613,  
277.349

■ 65, 34.220,  
278.200

■ 67, 38.765,  
279.006

# Harmonies

# Complementary

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



52, 4.897, 89.975



50, 4.898, 272.352

# Rectangle

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



52, 4.897, 89.975



52, 4.897, 139.975



52, 4.897, 269.975



52, 4.897, 319.975

# Sweetspot

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



52, 4.898, 89.992



67, 1.919, 90.674



50, 5.415, 354.478



35, 1.468, 90.608



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, 4.898, 89.992



66, 7.115, 89.772



53, 6.959, 116.059



26, 2.934, 90.027



40, 49.409, 76.630



0, 0.000, 0.000





# Inverse Universe

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



50, 4.898, 272.352



63, 7.109, 272.599



49, 7.102, 297.388



25, 2.935, 272.314



21, 56.624, 295.430



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 52, 4.897, 89.975 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, 4.897, 89.975 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

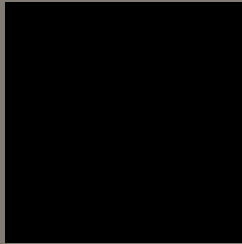
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

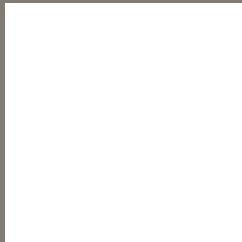
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 52, 4.897, 89.975

## Background



This preview shows how black text looks on a background with the CIELCh color 52, 4.897, 89.975.



This preview shows how white text looks on a background with the CIELCh color 52, 4.897, 89.975.

# 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

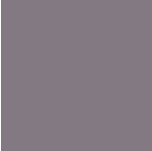
52, 4.897, 89.975

### Protanopia

52, 4.897, 89.975

### Deuteranopia

52, 8.252, 36.396



**Tritanopia**  
52, 6.845, 322.045



# Trichromacy



**Original Color**  
52, 4.897, 89.975

**Protanomaly**  
52, 4.897, 89.975

**Deuteranomaly**  
52, 6.487, 46.319

**Tritanomaly**  
52, 3.318, 348.049

# Monochromacy



**Original Color**  
52, 4.897, 89.975

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 1.774, 96.801

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 52, 4.897, 89.975 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, 124, 116)` looks like.

```
.text, #text, p{  
    color:rgb(128, 124, 116)  
}
```

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, 124, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 124, 116) }
```

## Border

The CSS property to change the border of an element to CIELCh 52, 4.897, 89.975 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, 124, 116) }
```

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

```
.border{ border-color:rgb(128, 124, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 124, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 124, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 124, 116);  
box-shadow:4px 4px 4px 4px rgb(128, 124,  
116) }
```

# Background

The CSS property to change the background color of an element to CIELCh 52, 4.897, 89.975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 124, 116) }
```

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

```
.background{ background-color: rgb(128,  
124, 116) }
```

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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