

# Converting Colors

CIELCh(52, 0.652, 224.651)

Have a look what the booklet for  
CIELCh(52, 0.652, 224.651) contains.

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# Color

**CIELCh(52, 0.703, 255.974)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B7C7D
RGB	123, 124, 125
RGB Percent	48%, 49%, 49%
CMY	0.5172, 0.5133, 0.5094
CMYK	0.02, 0.01, 0.00, 0.51
HSL	210°, 1%, 49%
HSV	210°, 2%, 49%
XYZ	19.1132, 20.1443, 22.3188
YIQ	123.8150, -0.9170, 0.0990

# Conversions

## Conversions Part 2

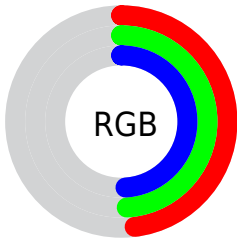
Format	Color
<b>R<sub>YB</sub></b>	123, 124, 125
Decimal	8092797
CIE Lab	52.00, -0.17, -0.68
CIE LCh	52, 0.703, 255.974
Yxy	20.1443, 0.3104, 0.3271
Android (android.graphics.Color)	4286282877 (0xFF7B7C7D)
YUV	123.8150, 0.5842, -0.7148
Hunter-Lab	44.8824, -2.5299, 1.9345

# Details

The CIELCh color  $52, 0.703, 255.974$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $52, 0.695, 74.742$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $72, 1.153, 271.520$ , and  $32, 0.765, 255.948$  is the 20% darker color. If you saturate the color by 10%, you get  $49, 5.045, 256.817$ , and if you desaturate by 10%, it is  $55, 3.668, 74.319$ .

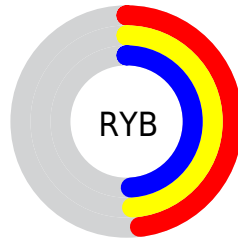
# Distribution



Red (48%)

Green (49%)

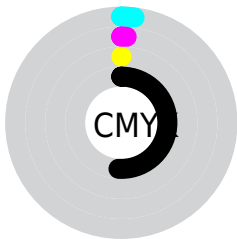
Blue (49%)



Red (48%)

Yellow (49%)

Blue (49%)

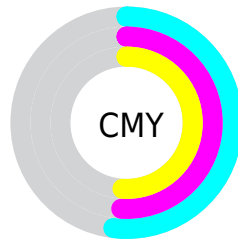


Cyan (2%)

Magenta (1%)

Yellow (0%)

Black (51%)



Cyan (52%)

Magenta (51%)

Yellow (51%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 52, 0.703, 255.974 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, 0.703, 255.974 by changing the saturation by 10% instead.



■ 52, 0.703, 255.974

■ 52, 0.703, 255.974

■ 100, 0.703,  
255.974

■ 42, 0.703, 255.974

■ 72, 0.703, 255.974

■ 32, 0.703, 255.974

■ 82, 0.703, 255.974

■ 22, 0.703, 255.974

■ 92, 0.703, 255.974

■ 12, 0.703, 255.974

■ 2, 0.703, 255.974

■ 0, 0.703, 255.974

■ 52, 0.703, 255.974

■ 52, 0.703, 255.974

■ 49, 5.045, 256.817

■ 55, 3.668, 74.319

■ 46, 9.343, 258.299

■ 58, 8.051, 73.417

44, 13.583,  
260.068

60, 12.434, 72.613

41, 17.748,  
262.167

63, 16.808, 71.907

66, 21.162, 71.285

38, 21.833,  
264.646

69, 25.490, 70.733

36, 25.840,  
267.555

72, 29.787, 70.242

75, 34.047, 69.800

33, 29.789,  
270.920

77, 38.268, 69.402

31, 33.722,  
274.731

29, 37.696,  
278.911

# Harmonies

# Complementary

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



52, 0.703, 255.974



52, 0.695, 74.742

# Rectangle

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



52, 0.703, 255.974



52, 0.703, 305.974



52, 0.703, 75.974



52, 0.703, 125.974

# Sweetspot

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



52, 0.702, 255.857



67, 0.008, 296.813



52, 0.998, 162.926



35, 0.005, 296.813



84, 0.010, 296.813

# Same Dimension

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



52, 0.702, 255.857



66, 1.090, 255.829



52, 1.149, 289.703



27, 0.502, 255.838



27, 41.796, 282.409



0, 0.000, 0.000





# Inverse Universe

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



52, 0.998, 343.429



66, 1.551, 343.527



52, 1.132, 109.318



27, 0.715, 343.482



27, 50.848, 0.448



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 52, 0.703, 255.974 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 52, 0.703, 255.974 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

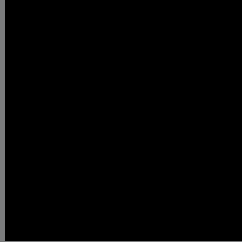
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

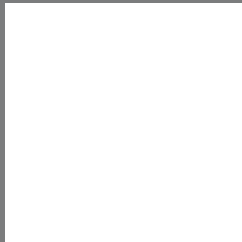
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 52, 0.703, 255.974**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 52, 0.703, 255.974.



This preview shows how white text looks on a background with the CIELCh color 52, 0.703, 255.974.

# 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, 0.703, 255.974

### Protanopia

52, 1.682, 335.676

### Deuteranopia

52, 6.985, 350.350



**Tritanopia**  
52, 5.833, 294.723

# Trichromacy



## Original Color

52, 0.703, 255.974

## Protanomaly

52, 1.422, 324.398

## Deuteranomaly

52, 4.968, 344.199

## Tritanomaly

52, 4.096, 296.180

# Monochromacy



## Original Color

52, 0.703, 255.974

## Achromatopsia

52, 0.007, 296.813

## Achromatomaly

52, 0.007, 296.813



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 52, 0.703, 255.974 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(123, 124, 125)` looks like.

```
.text, #text, p{  
    color:rgb(123, 124, 125)  
}
```

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(123, 124, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 124, 125) }
```

## Border

The CSS property to change the border of an element to CIELCh 52, 0.703, 255.974 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(123, 124, 125) }
```

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

```
.border{ border-color:rgb(123, 124, 125) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 124, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 124, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 124, 125);  
box-shadow:4px 4px 4px 4px rgb(123, 124,  
125) }
```

# Background

The CSS property to change the background color of an element to CIELCh 52, 0.703, 255.974 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 124, 125) }
```

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

```
.background{ background-color: rgb(123,  
124, 125) }
```

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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