

# Converting Colors

CIELCh(52, 5.262, 77.170)

Have a look what the booklet for  
CIELCh(52, 5.262, 77.170) contains.

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# Color

**CIELCh(52, 5.447, 77.510)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	827B73
RGB	130, 123, 115
RGB Percent	51%, 48%, 45%
CMY	0.4903, 0.5177, 0.5491
CMYK	0.00, 0.05, 0.12, 0.49
HSL	32°, 6%, 48%
HSV	32°, 12%, 51%
XYZ	19.3784, 20.1443, 19.0823
YIQ	124.1810, 6.7400, -1.0040

# Conversions

## Conversions Part 2

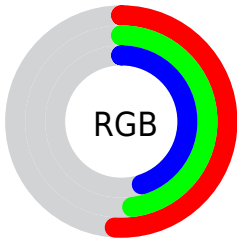
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 130, 115
Decimal	8551283
CIE Lab	52.00, 1.18, 5.32
CIE LCh	52, 5.447, 77.510
Yxy	20.1443, 0.3307, 0.3437
Android (android.graphics.Color)	4286741363 (0xFF827B73)
YUV	124.1810, -4.5262, 5.1033
Hunter-Lab	44.8824, -1.4754, 6.2098

# Details

The CIELCh color  $52, 5.447, 77.510$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $51, 5.335, 260.497$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $72, 5.303, 74.304$ , and  $32, 5.459, 73.463$  is the 20% darker color. If you saturate the color by 10%, you get  $50, 10.375, 76.316$ , and if you desaturate by 10%, it is  $54, 0.708, 78.426$ .

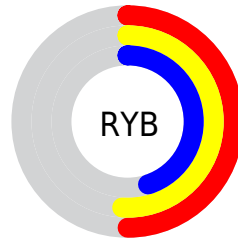
# Distribution



Red (51%)

Green (48%)

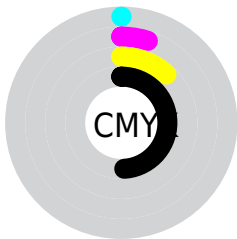
Blue (45%)



Red (50%)

Yellow (51%)

Blue (45%)

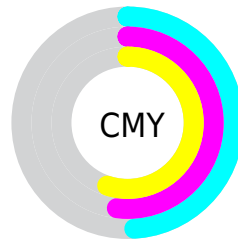


Cyan (0%)

Magenta (5%)

Yellow (12%)

Black (49%)



Cyan (49%)

Magenta (52%)

Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 52, 5.447, 77.510 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, 5.447, 77.510 by changing the saturation by 10% instead.



 52, 5.447, 77.510       52, 5.447, 77.510

 100, 5.447, 77.510       42, 5.447, 77.510

 72, 5.447, 77.510       32, 5.447, 77.510

 82, 5.447, 77.510       22, 5.447, 77.510

 92, 5.447, 77.510       12, 5.447, 77.510

 2, 5.447, 77.510

 0, 5.447, 77.510

 52, 5.447, 77.510       52, 5.447, 77.510

 50, 10.375, 76.316       54, 0.708, 78.426

 48, 15.499, 75.068       56, 3.859, 260.013

46, 20.820, 73.796

58, 8.268, 261.112

44, 26.315, 72.500

60, 12.537,  
262.193

42, 31.920, 71.165

62, 16.679,  
263.236

41, 37.498, 69.750

39, 42.773, 68.161

65, 20.708,  
264.235

37, 47.268, 66.211

67, 24.638,  
265.190

36, 50.843, 64.598

69, 28.478,  
266.100

71, 32.238,  
266.965

# Harmonies

# Complementary

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



52, 5.447, 77.510



51, 5.335, 260.497

# Rectangle

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



52, 5.447, 77.510



52, 5.447, 127.510



52, 5.447, 257.510



52, 5.447, 307.510

# Sweetspot

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



52, 5.448, 77.527



68, 1.716, 78.421



50, 7.333, 346.410



35, 1.298, 78.367



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, 5.448, 77.527



65, 8.209, 77.196



54, 8.604, 110.478



26, 2.606, 77.814



35, 50.127, 64.674



0, 0.000, 0.000





# Inverse Universe

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



51, 5.335, 260.497



64, 7.989, 260.890



49, 8.827, 292.587



25, 2.566, 260.169



26, 44.699, 285.707

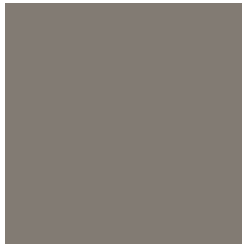


0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 52, 5.447, 77.510 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, 5.447, 77.510 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

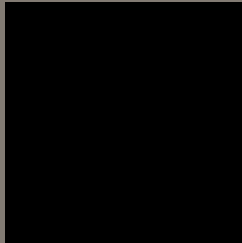
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 52, 5.447, 77.510**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 52, 5.447, 77.510.



This preview shows how white text looks on a background with the CIELCh color 52, 5.447, 77.510.

# 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

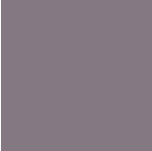
52, 5.447, 77.510

### Protanopia

52, 5.448, 91.898

### Deuteranopia

52, 8.252, 36.396



**Tritanopia**  
52, 6.839, 330.359



# Trichromacy



**Original Color**  
52, 5.447, 77.510

**Protanomaly**  
52, 5.585, 87.833

**Deuteranomaly**  
52, 6.868, 44.782

**Tritanomaly**  
52, 4.027, 354.220

# Monochromacy



**Original Color**  
52, 5.447, 77.510

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 1.903, 84.835

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 52, 5.447, 77.510 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(130, 123, 115)` looks like.

```
.text, #text, p{  
    color:rgb(130, 123, 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(130, 123, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 123, 115) }
```

## Border

The CSS property to change the border of an element to CIELCh 52, 5.447, 77.510 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(130, 123, 115) }
```

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

```
.border{ border-color:rgb(130, 123, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 123, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 123, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 123, 115);  
box-shadow:4px 4px 4px 4px rgb(130, 123,  
115) }
```

# Background

The CSS property to change the background color of an element to CIELCh 52, 5.447, 77.510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 123, 115) }
```

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

```
.background{ background-color: rgb(130,  
123, 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](#).

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