

# Converting Colors

CIELCh(48, 5.079, 19.365)

Have a look what the booklet for  
CIELCh(48, 5.079, 19.365) contains.

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# Color

**CIELCh(48, 4.972, 19.922)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B6F6F
RGB	123, 111, 111
RGB Percent	48%, 44%, 44%
CMY	0.5168, 0.5639, 0.5639
CMYK	0.00, 0.10, 0.10, 0.52
HSL	0°, 5%, 46%
HSV	0°, 10%, 48%
XYZ	16.7879, 16.7945, 17.4569
YIQ	114.5880, 7.1520, 2.5440

# Conversions

## Conversions Part 2

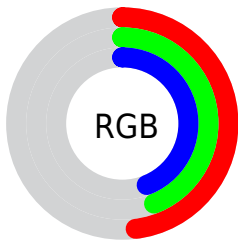
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	123, 111, 111
Decimal	8089455
CIE Lab	48.00, 4.67, 1.69
CIE LCh	48, 4.972, 19.922
Yxy	16.7945, 0.3289, 0.3290
Android (android.graphics.Color)	4286279535 (0xFF7B6F6F)
YUV	114.5880, -1.7689, 7.3773
Hunter-Lab	40.9810, 1.4058, 3.4307

# Details

The CIELCh color  $48, 4.972, 19.922$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $51, 4.687, 198.997$ , and the grayscale version is  $48, 0.006, 296.813$ .

A 20% lighter version of the original color is  $68, 5.005, 19.759$ , and  $28, 5.058, 20.243$  is the 20% darker color. If you saturate the color by 10%, you get  $44, 10.460, 20.743$ , and if you desaturate by 10%, it is  $52, 0.126, 202.496$ .

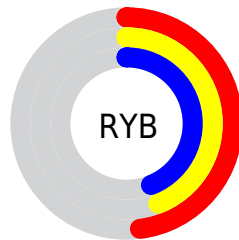
# Distribution



Red (48%)

Green (44%)

Blue (44%)



Red (48%)

Yellow (44%)

Blue (44%)

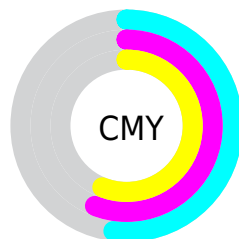


Cyan (0%)

Magenta (10%)

Yellow (10%)

Black (52%)



Cyan (52%)

Magenta (56%)

Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 4.972, 19.922 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 48, 4.972, 19.922 by changing the saturation by 10% instead.



 48, 4.972, 19.922	 48, 4.972, 19.922
 100, 4.972, 19.922	 38, 4.972, 19.922
 68, 4.972, 19.922	 28, 4.972, 19.922
 78, 4.972, 19.922	 18, 4.972, 19.922
 88, 4.972, 19.922	 8, 4.972, 19.922
 98, 4.972, 19.922	 0, 4.972, 19.922

 48, 4.972, 19.922	 48, 4.972, 19.922
 44, 10.460, 20.743	 52, 0.126, 202.496
 41, 16.348, 21.740	 56, 4.853, 199.018
 37, 22.611, 23.018	 60, 9.243, 198.599

■ 34, 29.181, 24.669

■ 63, 13.332,  
198.278

■ 31, 35.936, 26.790

■ 67, 17.154,  
198.020

■ 29, 42.693, 29.459

■ 27, 49.204, 32.653

■ 71, 20.741,  
197.810

■ 25, 54.977, 35.956

■ 75, 24.121,  
197.635

■ 24, 59.261, 38.007

■ 79, 27.321,  
197.489

■ 83, 30.361,  
197.367

# Harmonies

# Complementary

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



48, 4.972, 19.922



51, 4.687, 198.997

# Rectangle

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



48, 4.972, 19.922



48, 4.972, 69.922



48, 4.972, 199.922



48, 4.972, 249.922

# Sweetspot

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



48, 4.971, 19.937



65, 1.855, 19.346



48, 8.579, 324.931



34, 1.421, 19.437



84, 0.010, 296.813



35, 0.005, 296.813



# Same Dimension

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



48, 4.971, 19.937



60, 7.680, 20.132



50, 4.284, 74.227



24, 2.851, 19.885



25, 60.073, 38.178



53, 103.779, 40.002





# Inverse Universe

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



51, 4.687, 198.997



65, 7.127, 198.853



49, 4.193, 256.690



25, 2.699, 199.038



47, 29.537, 196.416



90, 49.720, 196.417



# Previews

## White Background



This preview shows how the CIELCh color 48, 4.972, 19.922 looks on a white 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

# Black Background



This preview shows how the CIE LCh color 48, 4.972, 19.922 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

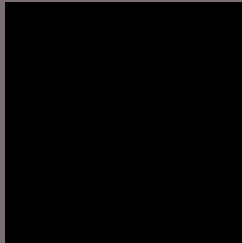
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 48, 4.972, 19.922**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 48, 4.972, 19.922.



This preview shows how white text looks on a background with the CIELCh color 48, 4.972, 19.922.

# 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


48, 4.972, 19.922

### Protanopia

48, 1.353, 45.012

### Deuteranopia

48, 6.680, 15.131



**Tritanopia**  
48, 7.785, 337.445



# Trichromacy



**Original Color**  
48, 4.972, 19.922

**Protanomaly**  
48, 2.875, 19.617

**Deuteranomaly**  
48, 6.258, 14.733

**Tritanomaly**  
48, 6.737, 348.613

# Monochromacy



**Original Color**  
48, 4.972, 19.922

**Achromatopsia**  
48, 0.006, 296.813

**Achromatomaly**  
48, 1.630, 19.370

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 4.972, 19.922 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, 111, 111)` looks like.

```
.text, #text, p{  
    color:rgb(123, 111, 111)  
}
```

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, 111, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 111, 111) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 4.972, 19.922 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, 111, 111) }
```

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

```
.border{ border-color:rgb(123, 111, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 111, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 111, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 111, 111);  
box-shadow:4px 4px 4px 4px rgb(123, 111,  
111) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 4.972, 19.922 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 111, 111) }
```

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

```
.background{ background-color: rgb(123,  
111, 111) }
```

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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