

# Converting Colors

CIELCh(48, 17.098, 100.758)

Have a look what the booklet for  
CIELCh(48, 17.098, 100.758)  
contains.

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**Color**

**CIELCh(48, 17.009, 101.893)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	777356
RGB	119, 115, 86
RGB Percent	47%, 45%, 34%
CMY	0.5341, 0.5498, 0.6635
CMYK	0.00, 0.03, 0.28, 0.53
HSL	53°, 16%, 40%
HSV	53°, 28%, 47%
XYZ	15.3618, 16.7945, 11.1970
YIQ	112.8900, 11.6930, -8.1710

# Conversions

## Conversions Part 2

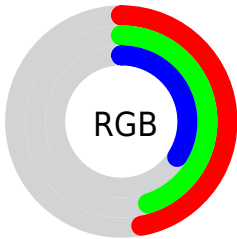
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	91, 119, 86
Decimal	7828310
CIE <sub>Lab</sub>	48.00, -3.51, 16.64
CIE <sub>LCh</sub>	48, 17.009, 101.893
Yxy	16.7945, 0.3543, 0.3874
Android (android.graphics.Color)	4286018390 (0xFF777356)
<b>YUV</b>	112.8900, -13.2568, 5.3585
Hunter-Lab	40.9810, -4.8057, 12.4873

# Details

The CIELCh color  $48, 17.009, 101.893$  is a dark color, and the websafe version is hex  $666633$ . A complement of this color would be  $39, 17.801, 288.193$ , and the grayscale version is  $48, 0.006, 296.813$ .

A 20% lighter version of the original color is  $68, 17.057, 101.584$ , and  $28, 17.217, 101.747$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 23.068, 100.841$ , and if you desaturate by 10%, it is  $49, 10.890, 102.943$ .

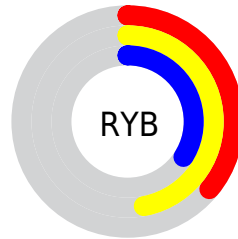
# Distribution



Red (47%)

Green (45%)

Blue (34%)



Red (36%)

Yellow (47%)

Blue (34%)

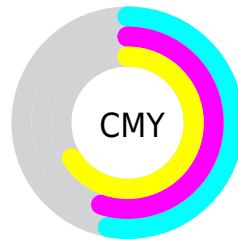


Cyan (0%)

Magenta (3%)

Yellow (28%)

Black (53%)



Cyan (53%)

Magenta (55%)

Yellow (66%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 17.009, 101.893 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, 17.009, 101.893 by changing the saturation by 10% instead.




 48, 17.009,  
101.893


 48, 17.009,  
101.893

 100, 17.009,  
101.893


 38, 17.009,  
101.893

 68, 17.009,  
101.893


 28, 17.009,  
101.893

 78, 17.009,  
101.893

 18, 17.009,  
101.893


 88, 17.009,  
101.893

 8, 17.009, 101.893

 98, 17.009,  
101.893

 0, 17.009, 101.893

 48, 17.009,

 48, 17.009,

101.893

101.893

■ 47, 23.068,  
100.841

■ 49, 10.890,  
102.943

■ 47, 28.990, 99.786

■ 49, 4.753, 103.963

■ 46, 34.657, 98.744

■ 50, 1.373, 285.041

■ 46, 39.881, 97.730

■ 51, 7.471, 285.964

■ 45, 44.390, 96.755

■ 52, 13.533,  
286.894

■ 45, 47.837, 95.824

■ 53, 19.551,  
287.787

■ 44, 50.258, 94.931

■ 44, 50.823, 94.738

■ 53, 25.523,  
288.639

■ 54, 31.446,  
289.449

■ 55, 37.319,



# Harmonies

# Complementary

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



48, 17.009, 101.893



39, 17.801, 288.193

# Rectangle

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



48, 17.009, 101.893



48, 17.009, 151.893



48, 17.009, 281.893



48, 17.009, 331.893

# Sweetspot

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



48, 17.010, 101.898



63, 6.106, 103.920



40, 14.663, 11.183



33, 4.374, 103.790



83, 0.010, 296.813



34, 0.005, 296.813





# Same Dimension

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



48, 17.010, 101.898



61, 25.170, 101.256



48, 19.883, 122.888



24, 3.410, 103.838



45, 51.909, 94.710



88, 87.658, 94.208



# Inverse Universe

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



39, 17.801, 288.193



48, 26.662, 289.155



39, 20.851, 305.839



22, 3.462, 285.735



14, 71.277, 303.842



34, 125.249, 304.872



# Previews

## White Background



This preview shows how the CIELCh color 48, 17.009, 101.893 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 CIELCh color 48, 17.009, 101.893 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

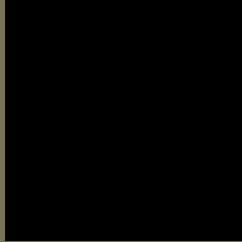
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 48, 17.009, 101.893**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 48, 17.009, 101.893.



This preview shows how white text looks on a background with the CIELCh color 48, 17.009, 101.893.

# 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, 17.009, 101.893


### Protanopia

48, 17.320, 95.979

### Deuteranopia

48, 17.295, 67.865





**Tritanopia**  
48, 7.494, 335.263

# Trichromacy



**Original Color**  
48, 17.009, 101.893

**Protanomaly**  
48, 17.230, 97.436

**Deuteranomaly**  
48, 16.080, 80.034

**Tritanomaly**  
48, 4.770, 57.615

# Monochromacy



**Original Color**  
48, 17.009, 101.893

**Achromatopsia**  
48, 0.006, 296.813

**Achromatomaly**  
48, 6.468, 105.571

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 17.009, 101.893 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(119, 115, 86)` looks like.

```
.text, #text, p{  
    color:rgb(119, 115, 86)  
}
```

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(119, 115, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 115, 86) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 17.009, 101.893 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(119, 115, 86) }
```

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

```
.border{ border-color:rgb(119, 115, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 115, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 115, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 115, 86);  
box-shadow:4px 4px 4px 4px rgb(119, 115,  
86) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 17.009, 101.893 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 115, 86) }
```

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

```
.background{ background-color: rgb(119,  
115, 86) }
```

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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