

# Converting Colors

CIELCh(46, 8.719, 48.279)

Have a look what the booklet for  
CIELCh(46, 8.719, 48.279) contains.

<b>CIELCh(46, 8.836, 48.014)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(46, 8.836, 48.014)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B6962
RGB	123, 105, 98
RGB Percent	48%, 41%, 38%
CMY	0.5167, 0.5873, 0.6147
CMYK	0.00, 0.15, 0.20, 0.52
HSL	17°, 11%, 43%
HSV	17°, 20%, 48%
XYZ	15.4968, 15.2687, 13.7450
YIQ	109.5840, 12.9750, 1.6390

# Conversions

## Conversions Part 2

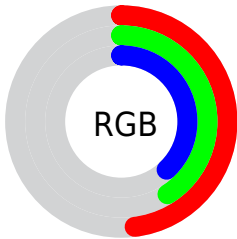
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	123, 108, 98
Decimal	8087906
CIE <sub>Lab</sub>	46.00, 5.91, 6.57
CIE <sub>LCh</sub>	46, 8.836, 48.014
Yxy	15.2687, 0.3482, 0.3430
Android (android.graphics.Color)	4286277986 (0xFF7B6962)
YUV	109.5840, -5.7109, 11.7658
Hunter-Lab	39.0751, 2.4099, 6.4968

# Details

The CIELCh color  $46, 8.836, 48.014$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $48, 7.871, 230.620$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 8.847, 45.812$ , and  $26, 8.762, 46.917$  is the 20% darker color. If you saturate the color by 10%, you get  $43, 13.700, 47.639$ , and if you desaturate by 10%, it is  $49, 4.318, 48.462$ .

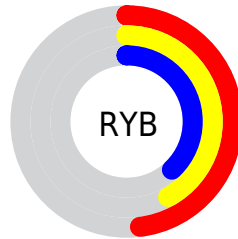
# Distribution



Red (48%)

Green (41%)

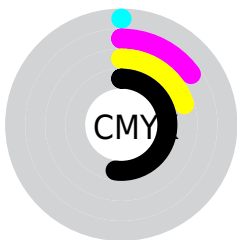
Blue (38%)



Red (48%)

Yellow (42%)

Blue (38%)

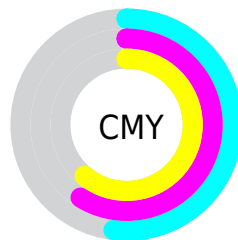


Cyan (0%)

Magenta (15%)

Yellow (20%)

Black (52%)



Cyan (52%)

Magenta (59%)

Yellow (61%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 8.836, 48.014 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 46, 8.836, 48.014 by changing the saturation by 10% instead.




 46, 8.836, 48.014       46, 8.836, 48.014


 100, 8.836, 48.014       36, 8.836, 48.014

 66, 8.836, 48.014       26, 8.836, 48.014


 76, 8.836, 48.014       16, 8.836, 48.014

 86, 8.836, 48.014       6, 8.836, 48.014

 96, 8.836, 48.014       0, 8.836, 48.014

 46, 8.836, 48.014       46, 8.836, 48.014

 43, 13.700, 47.639       49, 4.318, 48.462

 41, 18.932, 47.344       52, 0.116, 45.983

 38, 24.542, 47.167       55, 3.800, 229.756

■ 36, 30.509, 47.119

■ 57, 7.463, 230.314

■ 33, 36.760, 47.186

■ 60, 10.901,  
230.919

■ 31, 43.114, 47.291

■ 63, 14.141,  
231.536

■ 29, 49.165, 47.217

■ 28, 54.358, 46.970

■ 66, 17.208,  
232.156

■ 69, 20.122,  
232.771

■ 72, 22.902,  
233.376

# Harmonies

# Complementary

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



46, 8.836, 48.014



48, 7.871, 230.620

# Rectangle

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



46, 8.836, 48.014



46, 8.836, 98.014



46, 8.836, 228.014



46, 8.836, 278.014

# Sweetspot

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



46, 8.836, 48.025



64, 3.078, 48.620



45, 14.920, 334.273



33, 2.062, 48.604



84, 0.010, 296.813



35, 0.005, 296.813



# Same Dimension

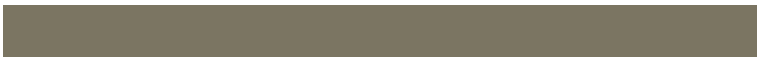
The Same Dimension uses a secret algorithm to generate beautiful new colors.



46, 8.836, 48.025



58, 13.191, 47.850



49, 11.454, 96.022



24, 2.338, 48.514



28, 54.997, 46.994



57, 95.496, 45.907





# Inverse Universe

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



48, 7.871, 230.620



60, 11.434, 231.032



44, 11.638, 280.913



25, 2.229, 229.764



36, 27.670, 250.503



70, 47.535, 253.360



# Previews

## White Background



This preview shows how the CIELCh color 46, 8.836, 48.014 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 46, 8.836, 48.014 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

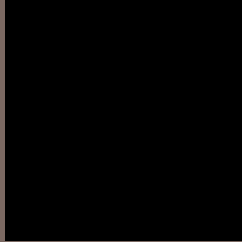
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 8.836, 48.014**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 8.836, 48.014.

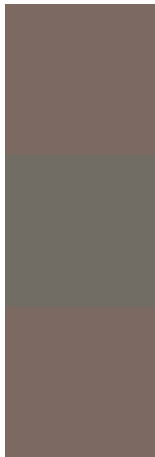


This preview shows how white text looks on a background with the CIELCh color 46, 8.836, 48.014.

# 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

46, 8.836, 48.014

### Protanopia

46, 5.577, 91.757

### Deuteranopia

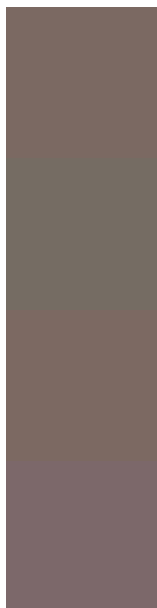
46, 9.230, 46.765



**Tritanopia**  
46, 10.273, 353.316



# Trichromacy



**Original Color**  
46, 8.836, 48.014

**Protanomaly**  
46, 6.566, 73.592

**Deuteranomaly**  
46, 9.230, 46.765

**Tritanomaly**  
46, 8.499, 12.474

# Monochromacy



**Original Color**  
46, 8.836, 48.014

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
46, 3.137, 41.748

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 8.836, 48.014 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, 105, 98)` looks like.

```
.text, #text, p{  
    color:rgb(123, 105, 98)  
}
```

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, 105, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 105, 98) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 8.836, 48.014 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, 105, 98) }
```

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

```
.border{ border-color:rgb(123, 105, 98) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 105, 98)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 105, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 105, 98);  
box-shadow:4px 4px 4px 4px rgb(123, 105,  
98) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 8.836, 48.014 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 105, 98) }
```

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

```
.background{ background-color: rgb(123,  
105, 98) }
```

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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