

# Converting Colors

CIELCh(46, 11.324, 23.479)

Have a look what the booklet for  
CIELCh(46, 11.324, 23.479) contains.

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**Color**

**CIELCh(46, 11.169, 23.775)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	816766
RGB	129, 103, 102
RGB Percent	51%, 40%, 40%
CMY	0.4949, 0.5968, 0.6008
CMYK	0.00, 0.20, 0.21, 0.49
HSL	2°, 12%, 45%
HSV	2°, 21%, 51%
XYZ	16.2421, 15.2687, 14.6114
YIQ	110.6600, 15.8170, 5.2010

# Conversions

## Conversions Part 2

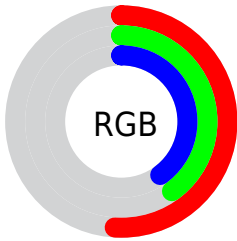
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	129, 103, 102
Decimal	8480614
CIE Lab	46.00, 10.22, 4.50
CIE LCh	46, 11.169, 23.775
Yxy	15.2687, 0.3522, 0.3310
Android (android.graphics.Color)	4286670694 (0xFF816766)
YUV	110.6600, -4.2694, 16.0842
Hunter-Lab	39.0751, 5.8143, 5.1823

# Details

The CIELCh color  $46, 11.169, 23.775$  is a dark color, and the websafe version is hex  $996666$ . A complement of this color would be  $52, 9.759, 201.874$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 11.095, 23.231$ , and  $26, 11.095, 24.793$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 17.137, 24.660$ , and if you desaturate by 10%, it is  $50, 5.616, 23.090$ .

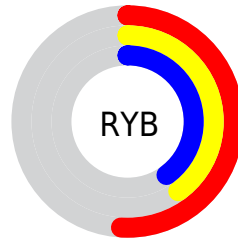
# Distribution



Red (51%)

Green (40%)

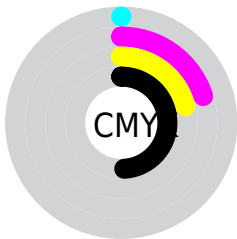
Blue (40%)



Red (51%)

Yellow (40%)

Blue (40%)

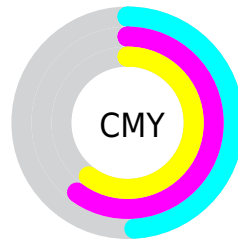


Cyan (0%)

Magenta (20%)

Yellow (21%)

Black (49%)



Cyan (49%)

Magenta (60%)



















Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 11.169, 23.775 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, 11.169, 23.775 by changing the saturation by 10% instead.



 46, 11.169, 23.775	 46, 11.169, 23.775
 100, 11.169, 23.775	 36, 11.169, 23.775
 66, 11.169, 23.775	 26, 11.169, 23.775
 76, 11.169, 23.775	 16, 11.169, 23.775
 86, 11.169, 23.775	 6, 11.169, 23.775
 96, 11.169, 23.775	 0, 11.169, 23.775
 46, 11.169, 23.775	 46, 11.169, 23.775
 42, 17.137, 24.660	 50, 5.616, 23.090
 39, 23.507, 25.803	 54, 0.471, 21.811

36, 30.223, 27.293

57, 4.295, 202.377

33, 37.174, 29.212

61, 8.715, 202.041

30, 44.188, 31.613

65, 12.828,  
201.807

28, 50.998, 34.446

69, 16.667,  
201.634

27, 57.050, 37.292

26, 61.103, 39.158

73, 20.265,  
201.505

77, 23.653,  
201.409

81, 26.855,  
201.339

# Harmonies

# Complementary

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



46, 11.169, 23.775



52, 9.759, 201.874

# Rectangle

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



46, 11.169, 23.775



46, 11.169, 73.775



46, 11.169, 203.775



46, 11.169, 253.775

# Sweetspot

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



46, 11.168, 23.783



66, 3.758, 22.774



47, 18.783, 326.453



34, 2.486, 22.810



85, 0.010, 296.813



36, 0.005, 296.813



# Same Dimension

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



46, 11.168, 23.783



57, 16.878, 24.161



50, 10.005, 76.373



25, 2.845, 22.971



26, 60.583, 39.086



0, 0.000, 0.000





# Inverse Universe

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



52, 9.759, 201.874



66, 14.271, 201.727



48, 9.592, 261.892



26, 2.691, 202.341



47, 28.538, 202.228



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 46, 11.169, 23.775 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, 11.169, 23.775 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

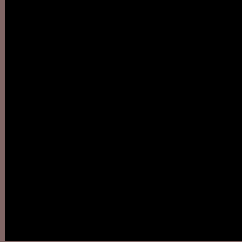
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 46, 11.169, 23.775

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 11.169, 23.775.



This preview shows how white text looks on a background with the CIELCh color 46, 11.169, 23.775.

# 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, 11.169, 23.775

### Protanopia

46, 2.664, 81.918

### Deuteranopia

46, 8.065, 37.234



**Tritanopia**  
46, 12.419, 1.643



# Trichromacy



**Original Color**  
46, 11.169, 23.775

**Protanomaly**  
46, 4.954, 40.794

**Deuteranomaly**  
46, 9.185, 31.525

**Tritanomaly**  
46, 12.067, 9.719

# Monochromacy



**Original Color**  
46, 11.169, 23.775

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
46, 4.161, 19.827

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 11.169, 23.775 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(129, 103, 102)` looks like.

```
.text, #text, p{  
    color:rgb(129, 103, 102)  
}
```

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(129, 103, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 103, 102) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 11.169, 23.775 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(129, 103, 102) }
```

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

```
.border{ border-color:rgb(129, 103, 102) }
```

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

Here you see how a box with a 4 pixel rgb(129, 103, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 103, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 103, 102);  
box-shadow:4px 4px 4px 4px rgb(129, 103,  
102) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 11.169, 23.775 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 103, 102) }
```

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

```
.background{ background-color: rgb(129,  
103, 102) }
```

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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