

# Converting Colors

CIELCh(46, 17.973, 328.839)

Have a look what the booklet for  
CIELCh(46, 17.973, 328.839)  
contains.

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**Color**

**CIELCh(46, 17.836, 328.788)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	80657D
RGB	128, 101, 125
RGB Percent	50%, 40%, 49%
CMY	0.4995, 0.6053, 0.5113
CMYK	0.00, 0.21, 0.02, 0.50
HSL	307°, 12%, 45%
HSV	307°, 21%, 50%
XYZ	17.1421, 15.2687, 21.3210
YIQ	111.8090, 8.3880, 13.1880

# Conversions

## Conversions Part 2

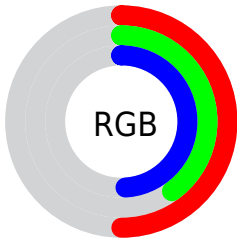
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 101, 125
Decimal	8414589
CIE <sub>Lab</sub>	46.00, 15.25, -9.24
CIE <sub>LCh</sub>	46, 17.836, 328.788
Yxy	15.2687, 0.3190, 0.2842
Android (android.graphics.Color)	4286604669 (0xFF80657D)
<b>YUV</b>	111.8090, 6.5032, 14.1995
Hunter-Lab	39.0751, 9.9257, -4.9984

# Details

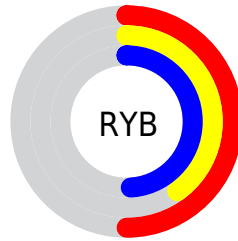
The CIELCh color  $46, 17.836, 328.788$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $51, 17.802, 146.256$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 18.053, 328.283$ , and  $26, 17.619, 328.365$  is the 20% darker color. If you saturate the color by 10%, you get  $43, 26.245, 329.365$ , and if you desaturate by 10%, it is  $49, 9.363, 328.210$ .

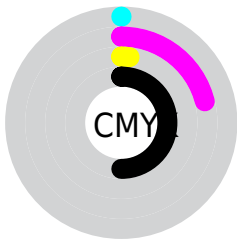
# Distribution



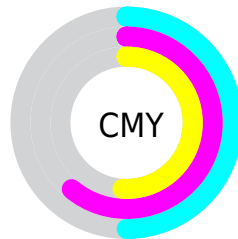
- Red (50%)
- Green (40%)
- Blue (49%)



- Red (50%)
- Yellow (40%)
- Blue (49%)



- Cyan (0%)
- Magenta (21%)
- Yellow (2%)
- Black (50%)



- Cyan (50%)
- Magenta (61%)
- Yellow (51%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 17.836, 328.788 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, 17.836, 328.788 by changing the saturation by 10% instead.




 46, 17.836,  
328.788


 46, 17.836,  
328.788

 100, 17.836,  
328.788


 36, 17.836,  
328.788

 66, 17.836,  
328.788


 26, 17.836,  
328.788

 76, 17.836,  
328.788

 16, 17.836,  
328.788


 86, 17.836,  
328.788

 6, 17.836, 328.788

 96, 17.836,  
328.788

 0, 17.836, 328.788

 46, 17.836,

 46, 17.836,

328.788

43, 26.245,  
329.365

40, 34.415,  
329.938

37, 42.103,  
330.502

34, 49.010,  
331.050

32, 54.806,  
331.579

31, 59.187,  
332.092

30, 61.957,  
332.597

29, 63.578,  
333.041

328.788

49, 9.363, 328.210

53, 0.957, 327.460

57, 7.302, 147.161

60, 15.366,  
146.624

64, 23.209,  
146.120

68, 30.819,  
145.642

72, 38.197,  
145.190

75, 45.349,  
144.763

79, 52.285,



# Harmonies

# Complementary

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



46, 17.836, 328.788



51, 17.802, 146.256

# Rectangle

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



46, 17.836, 328.788



46, 17.836, 18.788



46, 17.836, 148.788



46, 17.836, 198.788

# Sweetspot

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



46, 17.834, 328.788



65, 6.226, 327.911



44, 16.266, 296.013



34, 4.163, 327.943



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, 17.834, 328.788



57, 26.122, 329.045



46, 12.865, 351.362



25, 4.727, 328.090



29, 63.534, 333.040



0, 0.000, 0.000



# Inverse Universe

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



46, 17.834, 328.788



57, 26.122, 329.045



51, 12.363, 167.538



25, 4.727, 328.090



29, 63.534, 333.040

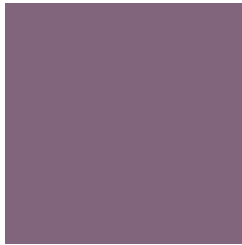


0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 46, 17.836, 328.788 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, 17.836, 328.788 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

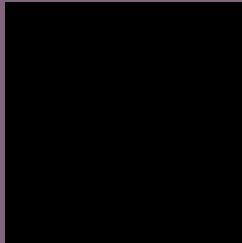
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 17.836, 328.788**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 17.836, 328.788.



This preview shows how white text looks on a background with the CIELCh color 46, 17.836, 328.788.

# 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, 17.836, 328.788

### Protanopia

46, 13.103, 287.059

### Deuteranopia

46, 11.100, 305.825





**Tritanopia**  
46, 10.647, 354.430

# Trichromacy



**Original Color**  
46, 17.836, 328.788

**Protanomaly**  
46, 14.095, 304.577

**Deuteranomaly**  
46, 13.173, 316.377

**Tritanomaly**  
46, 13.156, 342.086

# Monochromacy



**Original Color**  
46, 17.836, 328.788

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
46, 6.730, 327.712

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 17.836, 328.788 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(128, 101, 125)` looks like.

```
.text, #text, p{  
    color:rgb(128, 101, 125)  
}
```

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(128, 101, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 101, 125) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 17.836, 328.788 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(128, 101, 125) }
```

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

```
.border{ border-color:rgb(128, 101, 125) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 101, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 101, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 101, 125);  
box-shadow:4px 4px 4px 4px rgb(128, 101,  
125) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 17.836, 328.788 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 101, 125) }
```

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

```
.background{ background-color: rgb(128,  
101, 125) }
```

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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