

# Converting Colors

CIELCh(46, 17.843, 348.632)

Have a look what the booklet for  
CIELCh(46, 17.843, 348.632)  
contains.

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**Color**

**CIELCh(46, 17.521, 349.230)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	876373
RGB	135, 99, 115
RGB Percent	53%, 39%, 45%
CMY	0.4712, 0.6123, 0.5496
CMYK	0.00, 0.27, 0.15, 0.47
HSL	333°, 15%, 46%
HSV	333°, 27%, 53%
XYZ	17.5010, 15.2687, 18.1998
YIQ	111.5880, 16.3200, 12.6080

# Conversions

## Conversions Part 2

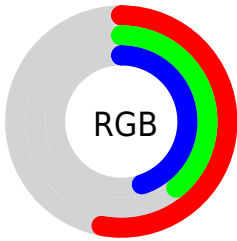
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 99, 115
Decimal	8872819
CIE <sub>Lab</sub>	46.00, 17.21, -3.27
CIE <sub>LCh</sub>	46, 17.521, 349.230
Yxy	15.2687, 0.3434, 0.2996
Android (android.graphics.Color)	4287062899 (0xFF876373)
YUV	111.5880, 1.6821, 20.5323
Hunter-Lab	39.0751, 11.5653, -0.2626

# Details

The CIELCh color  $46, 17.521, 349.230$  is a dark color, and the websafe version is hex  $996666$ . A complement of this color would be  $53, 16.803, 164.350$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 17.666, 349.164$ , and  $26, 17.608, 349.796$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 24.200, 350.407$ , and if you desaturate by 10%, it is  $50, 10.847, 348.197$ .

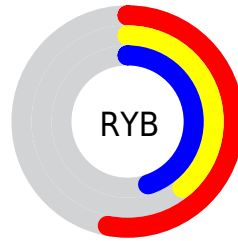
# Distribution



Red (53%)

Green (39%)

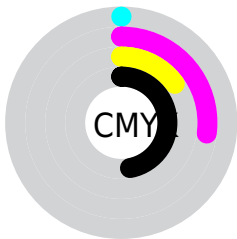
Blue (45%)



Red (53%)

Yellow (39%)

Blue (45%)

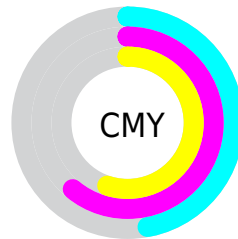


Cyan (0%)

Magenta (27%)

Yellow (15%)

Black (47%)



Cyan (47%)

Magenta (61%)


Yellow (55%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 17.521, 349.230 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, 17.521, 349.230 by changing the saturation by 10% instead.





 46, 17.521,  
349.230


 46, 17.521,  
349.230


 100, 17.521,  
349.230


 36, 17.521,  
349.230

 66, 17.521,  
349.230


 26, 17.521,  
349.230

 76, 17.521,  
349.230

 16, 17.521,  
349.230


 86, 17.521,  
349.230

 6, 17.521, 349.230

 96, 17.521,  
349.230

 0, 17.521, 349.230

 46, 17.521,

 46, 17.521,

349.230

349.230

42, 24.200,  
350.407

50, 10.847,  
348.197

39, 30.722,  
351.773

54, 4.292, 347.242

36, 36.850,  
353.397

58, 2.084, 166.650

62, 8.249, 165.792

33, 42.288,  
355.375

66, 14.191,  
165.096

31, 46.720,  
357.834

70, 19.912,  
164.463

29, 49.901, 0.927

74, 25.422,  
163.881

28, 51.920, 4.713

28, 52.590, 5.977

78, 30.732,  
163.342

82, 35.858,



# Harmonies

# Complementary

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



46, 17.521, 349.230



53, 16.803, 164.350

# Rectangle

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



46, 17.521, 349.230



46, 17.521, 39.230



46, 17.521, 169.230



46, 17.521, 219.230

# Sweetspot

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



46, 17.519, 349.232



68, 6.392, 347.385



45, 22.849, 311.966



35, 4.586, 347.514



87, 0.010, 296.813



38, 0.005, 296.813





# Same Dimension

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



46, 17.519, 349.232



57, 26.199, 349.921



46, 14.927, 25.306



26, 3.581, 347.473



27, 51.233, 5.795



0, 0.847, 346.754



# Inverse Universe

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



46, 17.519, 349.232



57, 26.199, 349.921



53, 12.498, 202.999



26, 3.581, 347.473



27, 51.233, 5.795

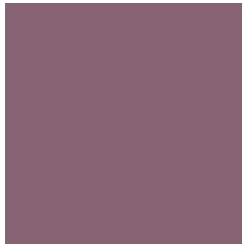


0, 0.847, 346.754



# Previews

## White Background



This preview shows how the CIELCh color 46, 17.521, 349.230 looks on a white background.

## Color Contrast Check

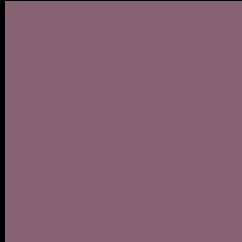
Large Text (above 18pt) WCAG AA ✓ Pass

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, 17.521, 349.230 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

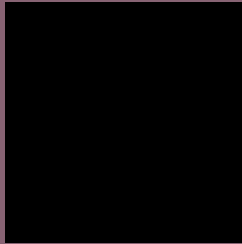
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 46, 17.521, 349.230

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 17.521, 349.230.



This preview shows how white text looks on a background with the CIELCh color 46, 17.521, 349.230.

# 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, 17.521, 349.230

### Protanopia

46, 7.733, 291.247

### Deuteranopia

46, 6.841, 336.315





**Tritanopia**  
46, 15.041, 3.200

# Trichromacy



**Original Color**  
46, 17.521, 349.230

**Protanomaly**  
46, 9.860, 323.057

**Deuteranomaly**  
46, 10.811, 343.733

**Tritanomaly**  
46, 15.360, 358.952

# Monochromacy



**Original Color**  
46, 17.521, 349.230

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 6.123, 351.275

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 17.521, 349.230 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(135, 99, 115)` looks like.

```
.text, #text, p{  
    color:rgb(135, 99, 115)  
}
```

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(135, 99, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 99, 115) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 17.521, 349.230 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(135, 99, 115) }
```

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

```
.border{ border-color:rgb(135, 99, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 99, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(135, 99, 115); -webkit-box-shadow:4px 4px 4px 4px rgb(135, 99, 115); box-shadow:4px 4px 4px 4px rgb(135, 99, 115) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 17.521, 349.230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 99, 115) }
```

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

```
.background{ background-color: rgb(135, 99,  
115) }
```

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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