

# Converting Colors

CIELCh(46, 15.376, 347.287)

Have a look what the booklet for  
CIELCh(46, 15.376, 347.287)  
contains.

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**Color**

**CIELCh(46, 15.492, 346.587)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	836473
RGB	131, 100, 115
RGB Percent	51%, 39%, 45%
CMY	0.4850, 0.6066, 0.5478
CMYK	0.00, 0.24, 0.12, 0.49
HSL	331°, 13%, 45%
HSV	331°, 24%, 51%
XYZ	17.1085, 15.2687, 18.3587
YIQ	110.9790, 13.6610, 11.2370

# Conversions

## Conversions Part 2

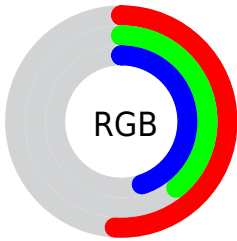
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	131, 100, 115
Decimal	8610931
CIE <sub>Lab</sub>	46.00, 15.07, -3.59
CIE <sub>LCh</sub>	46, 15.492, 346.587
Yxy	15.2687, 0.3372, 0.3009
Android (android.graphics.Color)	4286801011 (0xFF836473)
YUV	110.9790, 1.9824, 17.5584
Hunter-Lab	39.0751, 9.7720, -0.5036

# Details

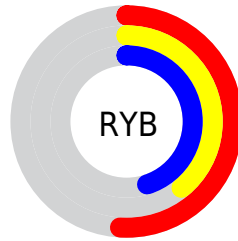
The CIELCh color  $46, 15.492, 346.587$  is a dark color, and the websafe version is hex  $996666$ . A complement of this color would be  $52, 15.022, 162.495$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 15.435, 346.023$ , and  $26, 15.446, 346.601$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 22.161, 347.654$ , and if you desaturate by 10%, it is  $50, 8.845, 345.634$ .

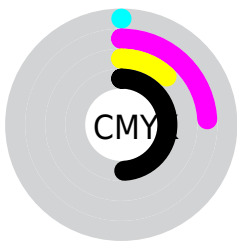
# Distribution



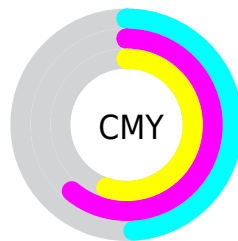
- Red (51%)
- Green (39%)
- Blue (45%)



- Red (51%)
- Yellow (39%)
- Blue (45%)



- Cyan (0%)
- Magenta (24%)
- Yellow (12%)
- Black (49%)




- Cyan (49%)
- Magenta (61%)
- Yellow (55%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 15.492, 346.587 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, 15.492, 346.587 by changing the saturation by 10% instead.





 46, 15.492,  
346.587


 46, 15.492,  
346.587


 100, 15.492,  
346.587


 36, 15.492,  
346.587

 66, 15.492,  
346.587


 26, 15.492,  
346.587

 76, 15.492,  
346.587

 16, 15.492,  
346.587


 86, 15.492,  
346.587

 6, 15.492, 346.587

 96, 15.492,  
346.587

 0, 15.492, 346.587

 46, 15.492,

 46, 15.492,

346.587

346.587

42, 22.161,  
347.654

50, 8.845, 345.634

39, 28.707,  
348.872

53, 2.322, 344.692

57, 4.025, 164.129

36, 34.915,  
350.294

61, 10.168,  
163.380

33, 40.503,  
351.997

65, 16.098,  
162.721

31, 45.154,  
354.084

69, 21.817,  
162.116

29, 48.584,  
356.689

73, 27.333,  
161.556

28, 50.663,  
359.954

77, 32.660,  
161.036

27, 51.772, 2.173

81, 37.809,



# Harmonies

# Complementary

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



46, 15.492, 346.587



52, 15.022, 162.495

# Rectangle

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



46, 15.492, 346.587



46, 15.492, 36.587



46, 15.492, 166.587



46, 15.492, 216.587

# Sweetspot

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



46, 15.490, 346.589



67, 5.595, 345.047



45, 19.537, 310.144



35, 3.666, 345.090



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



46, 15.490, 346.589



57, 22.845, 347.108



46, 13.384, 21.101



26, 3.673, 345.228



27, 51.413, 2.128



0, 0.870, 344.531



# Inverse Universe

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



46, 15.490, 346.589



57, 22.845, 347.108



53, 11.507, 198.261



26, 3.673, 345.228



27, 51.413, 2.128

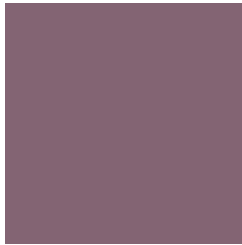


0, 0.870, 344.531



# Previews

## White Background



This preview shows how the CIELCh color 46, 15.492, 346.587 looks on a white background.

## Color Contrast Check

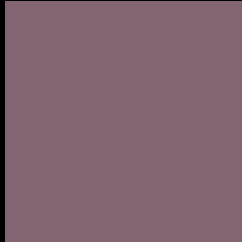
Large Text (above 18pt) WCAG AA ✓ Pass

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, 15.492, 346.587 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

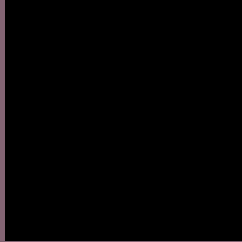
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 15.492, 346.587**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 15.492, 346.587.



This preview shows how white text looks on a background with the CIELCh color 46, 15.492, 346.587.

# 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, 15.492, 346.587


### Protanopia

46, 7.139, 291.167

### Deuteranopia

46, 6.554, 333.766





**Tritanopia**  
46, 13.405, 0.600

# Trichromacy



**Original Color**  
46, 15.492, 346.587

**Protanomaly**  
46, 8.946, 320.638

**Deuteranomaly**  
46, 9.474, 341.886

**Tritanomaly**  
46, 13.790, 355.933

# Monochromacy



**Original Color**  
46, 15.492, 346.587

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
46, 5.754, 341.943

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 15.492, 346.587 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(131, 100, 115)` looks like.

```
.text, #text, p{  
    color:rgb(131, 100, 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(131, 100, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 100, 115) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 15.492, 346.587 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(131, 100, 115) }
```

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

```
.border{ border-color:rgb(131, 100, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 100, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 100, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 100, 115);  
box-shadow:4px 4px 4px 4px rgb(131, 100,  
115) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 15.492, 346.587 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 100, 115) }
```

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

```
.background{ background-color: rgb(131,  
100, 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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