

# Converting Colors

CIELCh(46, 12.428, 348.782)

Have a look what the booklet for  
CIELCh(46, 12.428, 348.782)  
contains.

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**Color**

**CIELCh(46, 12.542, 349.841)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	806671
RGB	128, 102, 113
RGB Percent	50%, 40%, 44%
CMY	0.4982, 0.6002, 0.5571
CMYK	0.00, 0.20, 0.12, 0.50
HSL	335°, 11%, 45%
HSV	335°, 20%, 50%
XYZ	16.6180, 15.2687, 17.6786
YIQ	111.0280, 11.9650, 8.9330

# Conversions

## Conversions Part 2

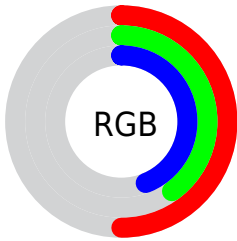
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 102, 113
Decimal	8414833
CIE <sub>Lab</sub>	46.00, 12.35, -2.21
CIE <sub>LCh</sub>	46, 12.542, 349.841
Yxy	15.2687, 0.3353, 0.3081
Android (android.graphics.Color)	4286604913 (0xFF806671)
YUV	111.0280, 0.9722, 14.8844
Hunter-Lab	39.0751, 7.5314, 0.5282

# Details

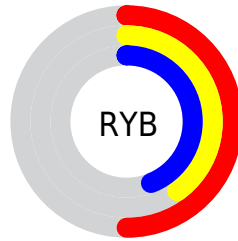
The CIELCh color  $46, 12.542, 349.841$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $51, 12.113, 166.242$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 12.651, 349.065$ , and  $26, 12.268, 349.921$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 18.885, 350.945$ , and if you desaturate by 10%, it is  $50, 6.287, 348.856$ .

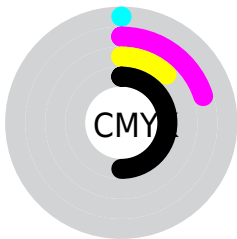
# Distribution



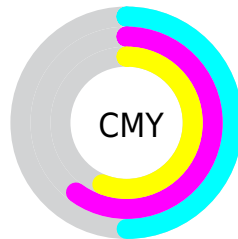
- Red (50%)
- Green (40%)
- Blue (44%)



- Red (50%)
- Yellow (40%)
- Blue (44%)



- Cyan (0%)
- Magenta (20%)
- Yellow (12%)
- Black (50%)




- Cyan (50%)
- Magenta (60%)
- Yellow (56%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 12.542, 349.841 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, 12.542, 349.841 by changing the saturation by 10% instead.





 46, 12.542,  
349.841


 46, 12.542,  
349.841


 100, 12.542,  
349.841


 36, 12.542,  
349.841

 66, 12.542,  
349.841


 26, 12.542,  
349.841

 76, 12.542,  
349.841

 16, 12.542,  
349.841


 86, 12.542,  
349.841

 6, 12.542, 349.841

 96, 12.542,  
349.841

 0, 12.542, 349.841

 46, 12.542,

 46, 12.542,

349.841

349.841

42, 18.885,  
350.945

50, 6.287, 348.856

39, 25.205,  
352.211

53, 0.195, 346.442

57, 5.699, 167.325

36, 31.322,  
353.699

61, 11.378,  
166.590

33, 36.998,  
355.491

65, 16.843,  
165.934

31, 41.942,  
357.695

69, 22.100,  
165.332

29, 45.874, 0.452

73, 27.162,  
164.778

27, 48.614, 3.921

77, 32.043,  
164.263

26, 50.639, 7.726

80, 36.757,



# Harmonies

# Complementary

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



46, 12.542, 349.841



51, 12.113, 166.242

# Rectangle

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



46, 12.542, 349.841



46, 12.542, 39.841



46, 12.542, 169.841



46, 12.542, 219.841

# Sweetspot

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



46, 12.540, 349.844



65, 4.491, 348.452



45, 16.595, 312.217



34, 3.004, 348.503



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, 12.540, 349.844



57, 18.387, 350.293



46, 10.455, 26.233



25, 3.418, 348.740



26, 50.511, 7.707



0, 0.000, 0.000



# Inverse Universe

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



46, 12.540, 349.844



57, 18.387, 350.293



51, 9.166, 204.857



25, 3.418, 348.740



26, 50.511, 7.707

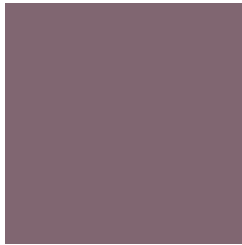


0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 46, 12.542, 349.841 looks on a white background.

## Color Contrast Check

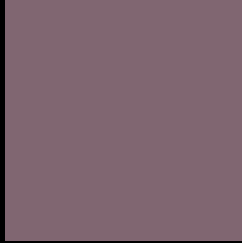
Large Text (above 18pt) WCAG AA ✓ Pass

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, 12.542, 349.841 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

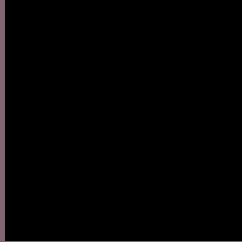
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 46, 12.542, 349.841**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 46, 12.542, 349.841.



This preview shows how white text looks on a background with the CIELCh color 46, 12.542, 349.841.

# 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, 12.542, 349.841

**Protanopia**  
46, 5.376, 295.151

**Deuteranopia**  
46, 6.092, 344.416





**Tritanopia**  
46, 11.811, 357.390

# Trichromacy



**Original Color**  
46, 12.542, 349.841

**Protanomaly**  
46, 7.219, 324.866

**Deuteranomaly**  
46, 8.150, 349.886

**Tritanomaly**  
46, 12.030, 354.770

# Monochromacy



**Original Color**  
46, 12.542, 349.841

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 4.398, 347.328

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 12.542, 349.841 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, 102, 113)` looks like.

```
.text, #text, p{  
    color:rgb(128, 102, 113)  
}
```

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, 102, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 102, 113) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 12.542, 349.841 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, 102, 113) }
```

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

```
.border{ border-color:rgb(128, 102, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 102, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 102, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 102, 113);  
box-shadow:4px 4px 4px 4px rgb(128, 102,  
113) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 12.542, 349.841 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 102, 113) }
```

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

```
.background{ background-color: rgb(128,  
102, 113) }
```

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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