

# Converting Colors

CIELCh(46, 14.474, 310.419)

Have a look what the booklet for  
CIELCh(46, 14.474, 310.419)  
contains.

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# Color

**CIELCh(46, 14.533, 310.607)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	74687F
RGB	116, 104, 127
RGB Percent	45%, 41%, 50%
CMY	0.5434, 0.5905, 0.5003
CMYK	0.09, 0.18, 0.00, 0.50
HSL	271°, 10%, 45%
HSV	271°, 18%, 50%
XYZ	16.1086, 15.2687, 22.3224
YIQ	110.2100, -0.2310, 9.6970

# Conversions

## Conversions Part 2

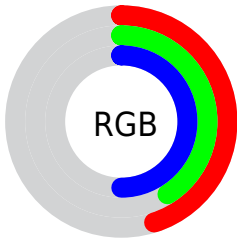
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 104, 127
Decimal	7628927
CIE <sub>Lab</sub>	46.00, 9.46, -11.03
CIE <sub>LCh</sub>	46, 14.533, 310.607
Yxy	15.2687, 0.3000, 0.2843
Android (android.graphics.Color)	4285819007 (0xFF74687F)
YUV	110.2100, 8.2775, 5.0778
Hunter-Lab	39.0751, 5.2046, -6.5180

# Details

The CIELCh color  $46, 14.533, 310.607$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $52, 14.208, 129.057$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 14.743, 310.371$ , and  $26, 14.585, 311.023$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 22.851, 311.089$ , and if you desaturate by 10%, it is  $50, 6.402, 310.148$ .

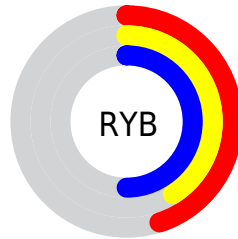
# Distribution



Red (45%)

Green (41%)

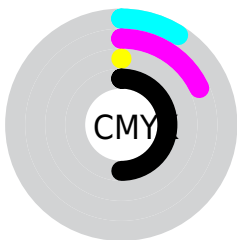
Blue (50%)



Red (45%)

Yellow (41%)

Blue (50%)

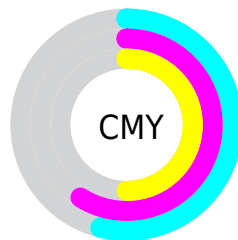


Cyan (9%)

Magenta (18%)

Yellow (0%)

Black (50%)



Cyan (54%)

Magenta (59%)


Yellow (50%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 14.533, 310.607 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, 14.533, 310.607 by changing the saturation by 10% instead.





 46, 14.533,  
310.607


 46, 14.533,  
310.607


 100, 14.533,  
310.607


 36, 14.533,  
310.607

 66, 14.533,  
310.607


 26, 14.533,  
310.607

 76, 14.533,  
310.607

 16, 14.533,  
310.607


 86, 14.533,  
310.607

 6, 14.533, 310.607

 96, 14.533,  
310.607

 0, 14.533, 310.607

 46, 14.533,

 46, 14.533,

310.607

42, 22.851,  
311.089

38, 31.301,  
311.590

34, 39.779,  
312.087

30, 48.107,  
312.546

27, 56.005,  
312.915

24, 63.068,  
313.121

21, 68.786,  
313.069

19, 73.147,  
312.789

310.607

50, 6.402, 310.148

54, 1.511, 129.808

58, 9.195, 129.384

62, 16.650,  
129.045

66, 23.881,  
128.745

70, 30.897,  
128.482

74, 37.708,  
128.251

78, 44.324,  
128.050

82, 50.757,

■ 19, 74.028,  
312.759

127.875

# Harmonies

# Complementary

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



46, 14.533, 310.607



52, 14.208, 129.057

# Rectangle

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



46, 14.533, 310.607



46, 14.533, 0.607



46, 14.533, 130.607



46, 14.533, 180.607

# Sweetspot

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



46, 14.532, 310.606



65, 4.907, 310.014



48, 8.074, 259.675



34, 3.376, 310.042



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, 14.532, 310.606



57, 22.070, 310.818



47, 16.219, 325.832



25, 4.485, 310.195



19, 74.060, 312.759



0, 0.000, 0.000



# Inverse Universe

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



47, 11.460, 346.356



58, 17.380, 346.789



51, 16.204, 143.802



25, 3.542, 345.531



26, 50.651, 2.546



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 46, 14.533, 310.607 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 CIELCh color 46, 14.533, 310.607 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

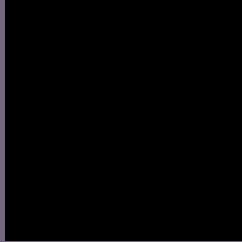
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 46, 14.533, 310.607

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 14.533, 310.607.



This preview shows how white text looks on a background with the CIELCh color 46, 14.533, 310.607.

# 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, 14.533, 310.607


### Protanopia

46, 13.132, 285.450

### Deuteranopia

46, 12.689, 300.558





**Tritanopia**  
46, 5.561, 321.289

# Trichromacy



**Original Color**  
46, 14.533, 310.607

**Protanomaly**  
46, 13.129, 295.269

**Deuteranomaly**  
46, 13.517, 305.095

**Tritanomaly**  
46, 9.106, 314.349

# Monochromacy



**Original Color**  
46, 14.533, 310.607

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 5.032, 309.340

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 14.533, 310.607 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(116, 104, 127)` looks like.

```
.text, #text, p{  
    color:rgb(116, 104, 127)  
}
```

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(116, 104, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 104, 127) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 14.533, 310.607 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(116, 104, 127) }
```

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

```
.border{ border-color:rgb(116, 104, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 104, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 104, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 104, 127);  
box-shadow:4px 4px 4px 4px rgb(116, 104,  
127) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 14.533, 310.607 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 104, 127) }
```

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

```
.background{ background-color: rgb(116,  
104, 127) }
```

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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