

# Converting Colors

CIELCh(46, 13.979, 301.336)

Have a look what the booklet for  
CIELCh(46, 13.979, 301.336)  
contains.

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# Color

**CIELCh(46, 13.923, 301.474)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	706A81
RGB	112, 106, 129
RGB Percent	44%, 42%, 51%
CMY	0.5617, 0.5852, 0.4951
CMYK	0.13, 0.18, 0.00, 0.50
HSL	256°, 10%, 46%
HSV	256°, 18%, 50%
XYZ	15.7292, 15.2687, 22.8036
YIQ	110.4160, -3.8070, 8.4250

# Conversions

## Conversions Part 2

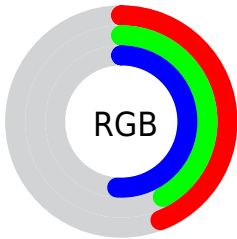
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	112, 106, 129
Decimal	7367297
CIE Lab	46.00, 7.27, -11.87
CIE LCh	46, 13.923, 301.474
Yxy	15.2687, 0.2924, 0.2838
Android (android.graphics.Color)	4285557377 (0xFF706A81)
YUV	110.4160, 9.1619, 1.3892
Hunter-Lab	39.0751, 3.4714, -7.2480

# Details

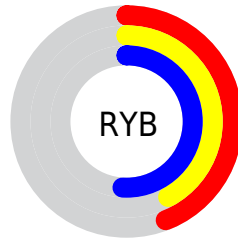
The CIELCh color  $46, 13.923, 301.474$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $53, 13.450, 119.268$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 14.150, 301.906$ , and  $26, 13.965, 301.208$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 22.102, 302.245$ , and if you desaturate by 10%, it is  $50, 6.020, 300.790$ .

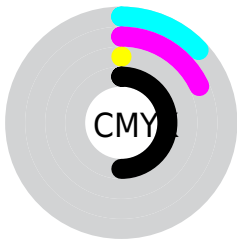
# Distribution



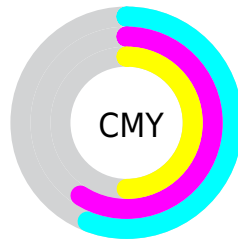
- Red (44%)
- Green (42%)
- Blue (51%)



- Red (44%)
- Yellow (42%)
- Blue (51%)



- Cyan (13%)
- Magenta (18%)
- Yellow (0%)
- Black (50%)



- Cyan (56%)
- Magenta (59%)
- Yellow (50%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 13.923, 301.474 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, 13.923, 301.474 by changing the saturation by 10% instead.





 46, 13.923,  
301.474


 46, 13.923,  
301.474


 100, 13.923,  
301.474


 36, 13.923,  
301.474

 66, 13.923,  
301.474


 26, 13.923,  
301.474

 76, 13.923,  
301.474

 16, 13.923,  
301.474


 86, 13.923,  
301.474

 6, 13.923, 301.474

 96, 13.923,  
301.474

 0, 13.923, 301.474

 46, 13.923,

 46, 13.923,

301.474

42, 22.102,  
302.245

37, 30.550,  
303.108

33, 39.221,  
304.054

29, 48.009,  
305.056

25, 56.688,  
306.057

21, 64.839,  
306.955

18, 71.789,  
307.597

16, 77.237,  
307.977

301.474

50, 6.020, 300.790

55, 1.607, 120.213

59, 8.971, 119.682

64, 16.084,  
119.231

68, 22.962,  
118.842

72, 29.619,  
118.505

76, 36.069,  
118.215

81, 42.323,  
117.964

85, 48.396,

■ 15,78.457,  
308.110

117.749

# Harmonies

# Complementary

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



46, 13.923, 301.474



53, 13.450, 119.268

# Rectangle

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



46, 13.923, 301.474



46, 13.923, 351.474



46, 13.923, 121.474



46, 13.923, 171.474

# Sweetspot

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



46, 13.922, 301.472



66, 4.750, 300.616



50, 7.259, 226.485



34, 3.228, 300.653



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, 13.922, 301.472



57, 20.513, 301.743



47, 15.253, 318.025



25, 4.294, 300.869



15, 77.893, 308.118



0, 0.000, 0.000



# Inverse Universe

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



47, 13.649, 333.878



60, 20.009, 334.128



52, 15.091, 136.505



25, 4.252, 333.285



28, 56.988, 341.545



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 46, 13.923, 301.474 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, 13.923, 301.474 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

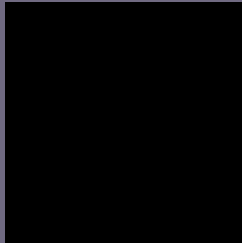
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 46, 13.923, 301.474

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 13.923, 301.474.



This preview shows how white text looks on a background with the CIELCh color 46, 13.923, 301.474.

# 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, 13.923, 301.474


### Protanopia

46, 13.132, 285.450

### Deuteranopia

46, 13.814, 298.347





**Tritanopia**  
46, 4.838, 300.322

# Trichromacy



**Original Color**  
46, 13.923, 301.474

**Protanomaly**  
46, 13.690, 292.051

**Deuteranomaly**  
46, 13.864, 299.914

**Tritanomaly**  
46, 8.505, 301.941

# Monochromacy



**Original Color**  
46, 13.923, 301.474

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
46, 5.502, 303.446

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 13.923, 301.474 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(112, 106, 129)` looks like.

```
.text, #text, p{  
    color:rgb(112, 106, 129)  
}
```

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(112, 106, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 106, 129) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 13.923, 301.474 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(112, 106, 129) }
```

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

```
.border{ border-color:rgb(112, 106, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 106, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 106, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 106, 129);  
box-shadow:4px 4px 4px 4px rgb(112, 106,  
129) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 13.923, 301.474 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 106, 129) }
```

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

```
.background{ background-color: rgb(112,  
106, 129) }
```

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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