

# Converting Colors

CIELCh(46, 15.925, 311.983)

Have a look what the booklet for  
CIELCh(46, 15.925, 311.983)  
contains.

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# Color

**CIELCh(46, 15.897, 311.953)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	766881
RGB	118, 104, 129
RGB Percent	46%, 41%, 51%
CMY	0.5382, 0.5930, 0.4950
CMYK	0.09, 0.19, 0.00, 0.50
HSL	274°, 11%, 46%
HSV	274°, 19%, 50%
XYZ	16.3135, 15.2687, 22.7736
YIQ	111.0360, 0.3190, 10.7430

# Conversions

## Conversions Part 2

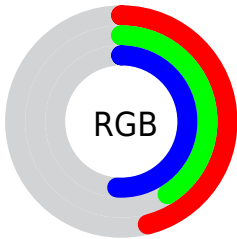
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	118, 104, 129
Decimal	7760001
CIE <sub>Lab</sub>	46.00, 10.63, -11.82
CIE <sub>LCh</sub>	46, 15.897, 311.953
Yxy	15.2687, 0.3001, 0.2809
Android (android.graphics.Color)	4285950081 (0xFF766881)
YUV	111.0360, 8.8563, 6.1074
Hunter-Lab	39.0751, 6.1407, -7.2025

# Details

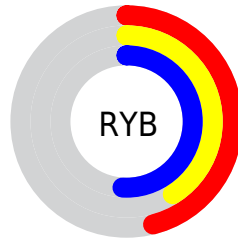
The CIELCh color  $46, 15.897, 311.953$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $52, 15.550, 130.317$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 16.026, 311.619$ , and  $26, 15.933, 311.044$  is the 20% darker color. If you saturate the color by 10%, you get  $42, 24.349, 312.416$ , and if you desaturate by 10%, it is  $50, 7.611, 311.507$ .

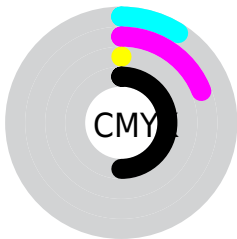
# Distribution



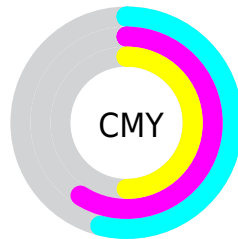
- Red (46%)
- Green (41%)
- Blue (51%)



- Red (46%)
- Yellow (41%)
- Blue (51%)



- Cyan (9%)
- Magenta (19%)
- Yellow (0%)
- Black (50%)




- Cyan (54%)
- Magenta (59%)
- Yellow (50%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 15.897, 311.953 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, 15.897, 311.953 by changing the saturation by 10% instead.





 46, 15.897,  
311.953


 46, 15.897,  
311.953


 100, 15.897,  
311.953


 36, 15.897,  
311.953

 66, 15.897,  
311.953


 26, 15.897,  
311.953

 76, 15.897,  
311.953

 16, 15.897,  
311.953


 86, 15.897,  
311.953

 6, 15.897, 311.953

 96, 15.897,  
311.953

 0, 15.897, 311.953

 46, 15.897,

 46, 15.897,

311.953

42, 24.349,  
312.416

38, 32.899,  
312.888

34, 41.421,  
313.345

31, 49.715,  
313.750

27, 57.471,  
314.049

24, 64.269,  
314.169

22, 69.610,  
314.024

20, 73.748,  
313.698

311.953

50, 7.611, 311.507

54, 0.466, 131.326

58, 8.320, 130.752

62, 15.946,  
130.409

66, 23.346,  
130.106

70, 30.527,  
129.837

74, 37.499,  
129.601

78, 44.272,  
129.393

82, 50.856,

■ 20,74.006,  
313.686

129.212

# Harmonies

# Complementary

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



46, 15.897, 311.953



52, 15.550, 130.317

# Rectangle

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



46, 15.897, 311.953



46, 15.897, 1.953



46, 15.897, 131.953



46, 15.897, 181.953

# Sweetspot

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



46, 15.896, 311.952



66, 6.019, 311.363



48, 9.033, 263.345



34, 3.976, 311.386



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, 15.896, 311.952



57, 23.560, 312.142



47, 17.191, 326.845



25, 4.522, 311.493



20, 73.476, 313.697



0, 0.000, 0.000



# Inverse Universe

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



47, 12.150, 348.720



58, 17.999, 349.147



51, 17.172, 144.613



25, 3.455, 347.725



26, 50.502, 6.105

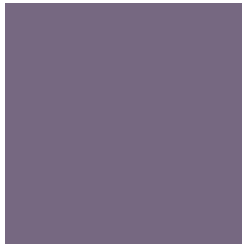


0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 46, 15.897, 311.953 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, 15.897, 311.953 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

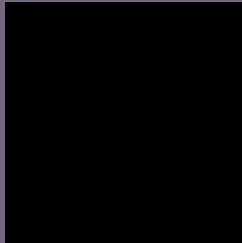
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 46, 15.897, 311.953

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 15.897, 311.953.



This preview shows how white text looks on a background with the CIELCh color 46, 15.897, 311.953.

# 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, 15.897, 311.953

### Protanopia

46, 14.309, 286.193

### Deuteranopia

46, 13.224, 298.577





**Tritanopia**  
46, 6.741, 327.716

# Trichromacy



**Original Color**  
46, 15.897, 311.953

**Protanomaly**  
46, 14.958, 296.524

**Deuteranomaly**  
46, 14.095, 304.577

**Tritanomaly**  
46, 10.170, 319.324

# Monochromacy



**Original Color**  
46, 15.897, 311.953

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
46, 5.736, 311.280

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 15.897, 311.953 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(118, 104, 129)` looks like.

```
.text, #text, p{  
    color:rgb(118, 104, 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(118, 104, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 104, 129) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 15.897, 311.953 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(118, 104, 129) }
```

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

```
.border{ border-color:rgb(118, 104, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 104, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 104, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 104, 129);  
box-shadow:4px 4px 4px 4px rgb(118, 104,  
129) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 15.897, 311.953 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 104, 129) }
```

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

```
.background{ background-color: rgb(118,  
104, 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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