

# Converting Colors

CIELCh(46, 37.700, 310.972)

Have a look what the booklet for  
CIELCh(46, 37.700, 310.972)  
contains.

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**Color**

**CIELCh(46, 37.803, 310.700)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7E609D
RGB	126, 96, 157
RGB Percent	49%, 38%, 62%
CMY	0.5054, 0.6231, 0.3838
CMYK	0.20, 0.39, 0.00, 0.38
HSL	270°, 24%, 50%
HSV	270°, 39%, 62%
XYZ	18.9103, 15.2687, 33.9023
YIQ	111.9240, -1.7010, 25.3310

# Conversions

## Conversions Part 2

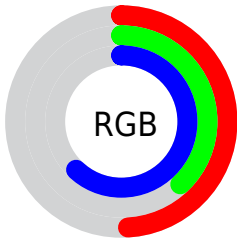
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	126, 96, 157
Decimal	8282269
CIE Lab	46.00, 24.65, -28.66
CIE LCh	46, 37.803, 310.700
Yxy	15.2687, 0.2778, 0.2243
Android (android.graphics.Color)	4286472349 (0xFF7E609D)
YUV	111.9240, 22.2225, 12.3447
Hunter-Lab	39.0751, 18.0030, -24.0885

# Details

The CIELCh color  $46, 37.803, 310.700$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $61, 35.759, 126.995$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $66, 37.895, 310.818$ , and  $26, 37.538, 310.523$  is the 20% darker color. If you saturate the color by 10%, you get  $41, 47.872, 311.239$ , and if you desaturate by 10%, it is  $51, 27.770, 310.161$ .

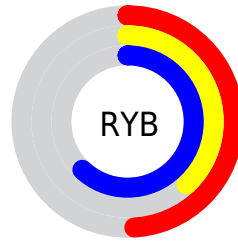
# Distribution



Red (49%)

Green (38%)

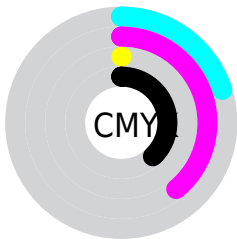
Blue (62%)



Red (49%)

Yellow (38%)

Blue (62%)

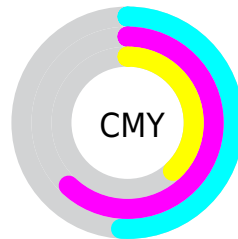


Cyan (20%)

Magenta (39%)

Yellow (0%)

Black (38%)



Cyan (51%)

Magenta (62%)


Yellow (38%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 46, 37.803, 310.700 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, 37.803, 310.700 by changing the saturation by 10% instead.





 46, 37.803,  
310.700


 46, 37.803,  
310.700


 100, 37.803,  
310.700


 36, 37.803,  
310.700

 66, 37.803,  
310.700


 26, 37.803,  
310.700

 76, 37.803,  
310.700


 16, 37.803,  
310.700

 86, 37.803,  
310.700

 6, 37.803, 310.700

 96, 37.803,  
310.700

 0, 37.803, 310.700

 46, 37.803,

 46, 37.803,

310.700

310.700

41, 47.872,  
311.239

51, 27.770,  
310.161

37, 57.755,  
311.738

56, 17.907,  
309.644

33, 67.086,  
312.137

60, 8.282, 309.159

29, 75.329,  
312.350

65, 1.073, 128.824

26, 81.821,  
312.267

70, 10.147,  
128.352

24, 86.401,  
311.888

75, 18.942,  
127.998

24, 86.936,  
311.853

80, 27.464,  
127.689

85, 35.725,  
127.418

■ 90, 43.739,  
127.183

# Harmonies

# Complementary

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



46, 37.803, 310.700



61, 35.759, 126.995

# Rectangle

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



46, 37.803, 310.700



46, 37.803, 0.700



46, 37.803, 130.700



46, 37.803, 180.700

# Sweetspot

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



46, 37.802, 310.700



75, 13.990, 309.321



52, 19.662, 259.960



38, 9.273, 309.377



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



46, 37.802, 310.700



54, 56.974, 311.190



49, 41.394, 325.989



31, 5.334, 309.179



21, 80.995, 311.946



1, 6.859, 307.887



# Inverse Universe

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



48, 30.053, 346.906



58, 44.702, 348.071



59, 41.409, 141.234



31, 4.324, 343.916



30, 55.221, 0.285

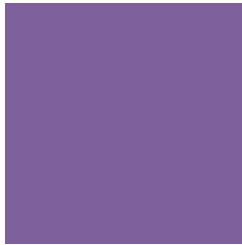


1, 5.497, 344.629



# Previews

## White Background



This preview shows how the CIELCh color 46, 37.803, 310.700 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, 37.803, 310.700 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, 37.803, 310.700

## Background



This preview shows how black text looks on a background with the CIELCh color 46, 37.803, 310.700.



This preview shows how white text looks on a background with the CIELCh color 46, 37.803, 310.700.

# 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, 37.803, 310.700


### Protanopia

46, 35.233, 285.386

### Deuteranopia

46, 28.176, 283.304





**Tritanopia**  
46, 7.845, 337.477

# Trichromacy



**Original Color**  
46, 37.803, 310.700

**Protanomaly**  
46, 35.682, 294.368

**Deuteranomaly**  
46, 30.939, 294.285

**Tritanomaly**  
46, 18.436, 317.062

# Monochromacy



**Original Color**  
46, 37.803, 310.700

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 13.807, 309.825

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 46, 37.803, 310.700 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(126, 96, 157)` looks like.

```
.text, #text, p{  
    color:rgb(126, 96, 157)  
}
```

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(126, 96, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(126, 96, 157) }
```

## Border

The CSS property to change the border of an element to CIELCh 46, 37.803, 310.700 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(126, 96, 157) }
```

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

```
.border{ border-color:rgb(126, 96, 157) }
```

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

Here you see how a box with a 4 pixel rgb(126, 96, 157) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(126, 96, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(126, 96, 157);  
box-shadow:4px 4px 4px 4px rgb(126, 96,  
157) }
```

# Background

The CSS property to change the background color of an element to CIELCh 46, 37.803, 310.700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(126, 96, 157) }
```

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

```
.background{ background-color: rgb(126, 96,  
157) }
```

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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