

# Converting Colors

CIELCh(41, 29.122, 322.166)

Have a look what the booklet for  
CIELCh(41, 29.122, 322.166)  
contains.

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# Color

**CIELCh(41, 28.893, 321.965)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	78547E
RGB	120, 84, 126
RGB Percent	47%, 33%, 49%
CMY	0.5290, 0.6702, 0.5055
CMYK	0.05, 0.33, 0.00, 0.51
HSL	291°, 20%, 41%
HSV	291°, 33%, 49%
XYZ	14.7097, 11.8645, 21.2873
YIQ	99.5520, 7.9740, 20.6940

# Conversions

## Conversions Part 2

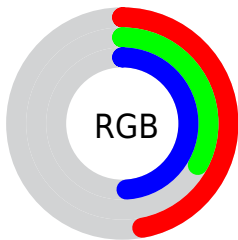
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	120, 84, 126
Decimal	7885950
CIE Lab	41.00, 22.76, -17.80
CIE LCh	41, 28.893, 321.965
Yxy	11.8645, 0.3073, 0.2479
Android (android.graphics.Color)	4286076030 (0xFF78547E)
YUV	99.5520, 13.0389, 17.9329
Hunter-Lab	34.4449, 15.9496, -12.5304

# Details

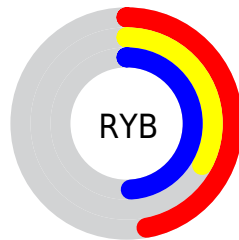
The CIELCh color  $41, 28.893, 321.965$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $49, 28.619, 138.653$ , and the grayscale version is  $42, 0.006, 296.813$ .

A 20% lighter version of the original color is  $61, 29.088, 321.925$ , and  $21, 28.945, 322.197$  is the 20% darker color. If you saturate the color by 10%, you get  $38, 37.405, 322.374$ , and if you desaturate by 10%, it is  $44, 20.191, 321.526$ .

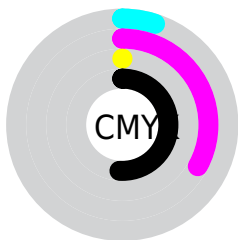
# Distribution



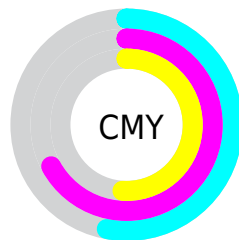
- Red (47%)
- Green (33%)
- Blue (49%)



- Red (47%)
- Yellow (33%)
- Blue (49%)



- Cyan (5%)
- Magenta (33%)
- Yellow (0%)
- Black (51%)



- Cyan (53%)
- Magenta (67%)
- Yellow (51%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 41, 28.893, 321.965 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 41, 28.893, 321.965 by changing the saturation by 10% instead.





 41, 28.893,  
321.965


 41, 28.893,  
321.965


 100, 28.893,  
321.965

 31, 28.893,  
321.965

 61, 28.893,  
321.965


 21, 28.893,  
321.965

 71, 28.893,  
321.965

 11, 28.893,  
321.965


 81, 28.893,  
321.965

 1, 28.893, 321.965

 91, 28.893,  
321.965

 0, 28.893, 321.965

 41, 28.893,

 41, 28.893,

321.965

■ 38, 37.405,  
322.374

■ 35, 45.502,  
322.730

■ 32, 52.889,  
323.007

■ 30, 59.220,  
323.173

■ 28, 64.159,  
323.196

■ 27, 67.476,  
323.052

■ 26, 69.325,  
322.926

321.965

■ 44, 20.191,  
321.526

■ 48, 11.468,  
321.072

■ 52, 2.832, 320.583

■ 55, 5.646, 140.233

■ 59, 13.924,  
139.799

■ 63, 21.980,  
139.400

■ 67, 29.807,  
139.028

■ 70, 37.403,  
138.682

■ 74, 44.775,  
138.362

# Harmonies

# Complementary

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



41, 28.893, 321.965



49, 28.619, 138.653

# Rectangle

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



41, 28.893, 321.965



41, 28.893, 11.965



41, 28.893, 141.965



41, 28.893, 191.965

# Sweetspot

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



41, 28.891, 321.965



63, 10.616, 320.929



39, 21.895, 287.679



32, 7.212, 320.983



84, 0.010, 296.813



35, 0.005, 296.813





# Same Dimension

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



41, 28.891, 321.965



50, 42.728, 322.281



41, 23.586, 338.864



25, 4.886, 320.877



26, 69.879, 322.921



0, 0.000, 0.000



# Inverse Universe

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



40, 18.755, 11.230



49, 28.279, 12.420



49, 23.213, 153.663



25, 3.000, 8.402



26, 56.736, 31.673

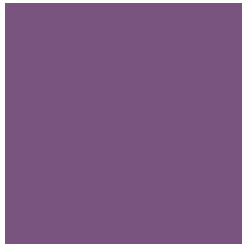


0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 41, 28.893, 321.965 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 41, 28.893, 321.965 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

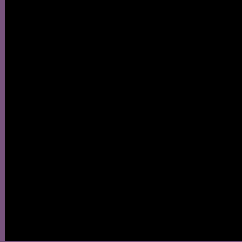
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 41, 28.893, 321.965

## Background



This preview shows how black text looks on a background with the CIELCh color 41, 28.893, 321.965.



This preview shows how white text looks on a background with the CIELCh color 41, 28.893, 321.965.

# 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

41, 28.893, 321.965

### Protanopia

41, 23.798, 284.563

### Deuteranopia

41, 17.619, 289.201





**Tritanopia**  
41, 11.869, 0.325

# Trichromacy



**Original Color**  
41, 28.893, 321.965

**Protanomaly**  
41, 24.461, 298.724

**Deuteranomaly**  
41, 21.173, 304.337

**Tritanomaly**  
41, 16.957, 336.393

# Monochromacy



**Original Color**  
41, 28.893, 321.965

**Achromatopsia**  
42, 0.006, 296.813

**Achromatomaly**  
42, 10.550, 321.362

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 41, 28.893, 321.965 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(120, 84, 126)` looks like.

```
.text, #text, p{  
    color:rgb(120, 84, 126)  
}
```

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(120, 84, 126) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 84, 126) }
```

## Border

The CSS property to change the border of an element to CIELCh 41, 28.893, 321.965 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(120, 84, 126) }
```

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

```
.border{ border-color:rgb(120, 84, 126) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 84, 126)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 84, 126); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 84, 126);  
box-shadow:4px 4px 4px 4px rgb(120, 84,  
126) }
```

# Background

The CSS property to change the background color of an element to CIELCh 41, 28.893, 321.965 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 84, 126) }
```

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

```
.background{ background-color: rgb(120, 84,  
126) }
```

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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