

# Converting Colors

CIELCh(41, 42.838, 318.144)

Have a look what the booklet for  
CIELCh(41, 42.838, 318.144)  
contains.

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**Color**

**CIELCh(41, 42.948, 317.997)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7D4E90
RGB	125, 78, 144
RGB Percent	49%, 31%, 56%
CMY	0.5091, 0.6935, 0.4346
CMYK	0.13, 0.46, 0.00, 0.43
HSL	283°, 30%, 44%
HSV	283°, 46%, 57%
XYZ	16.2671, 11.8645, 27.8894
YIQ	99.5770, 6.8260, 30.4900

# Conversions

## Conversions Part 2

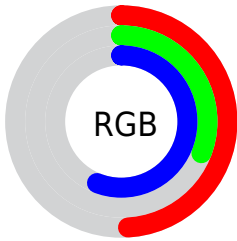
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">125, 78, 144</a>
Decimal	<a href="#">8212112</a>
CIELab	<a href="#">41.00, 31.92, -28.74</a>
CIELCh	<a href="#">41, 42.948, 317.997</a>
Yxy	<a href="#">11.8645, 0.2904, 0.2118</a>
Android (android.graphics.Color)	<a href="#">4286402192 (0xFF7D4E90)</a>
YUV	<a href="#">99.5770, 21.9005, 22.2960</a>
Hunter-Lab	<a href="#">34.4449, 24.0203, -23.8945</a>

# Details

The CIELCh color  $41, 42.948, 317.997$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $55, 41.645, 133.848$ , and the grayscale version is  $42, 0.006, 296.813$ .

A 20% lighter version of the original color is  $61, 43.110, 318.140$ , and  $21, 42.732, 317.944$  is the 20% darker color. If you saturate the color by 10%, you get  $37, 51.943, 318.328$ , and if you desaturate by 10%, it is  $45, 33.580, 317.606$ .

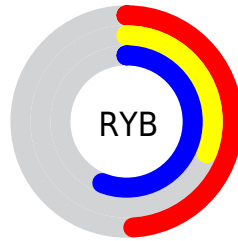
# Distribution



Red (49%)

Green (31%)

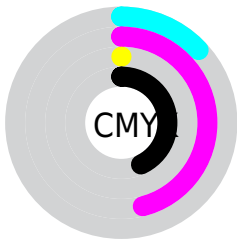
Blue (56%)



Red (49%)

Yellow (31%)

Blue (56%)

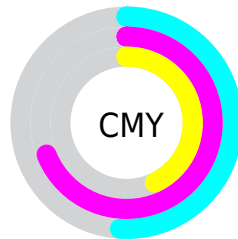


Cyan (13%)

Magenta (46%)

Yellow (0%)

Black (43%)



Cyan (51%)

Magenta (69%)


Yellow (43%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 41, 42.948, 317.997 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, 42.948, 317.997 by changing the saturation by 10% instead.





 41, 42.948,  
317.997


 41, 42.948,  
317.997


 100, 42.948,  
317.997


 31, 42.948,  
317.997

 61, 42.948,  
317.997


 21, 42.948,  
317.997

 71, 42.948,  
317.997

 11, 42.948,  
317.997

 81, 42.948,  
317.997

 1, 42.948, 317.997

 91, 42.948,  
317.997

 0, 42.948, 317.997

 41, 42.948,

 41, 42.948,

317.997

37, 51.943,  
318.328

34, 60.231,  
318.556

31, 67.383,  
318.631

29, 72.943,  
318.492

27, 76.652,  
318.104

26, 78.055,  
317.932

317.997

45, 33.580,  
317.606

49, 24.086,  
317.186

53, 14.629,  
316.758

57, 5.310, 316.325

62, 3.811, 135.993

66, 12.700,  
135.593

70, 21.344,  
135.244

75, 29.738,  
134.925

■ 79, 37.888,  
134.636

# Harmonies

# Complementary

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



41, 42.948, 317.997



55, 41.645, 133.848

# Rectangle

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



41, 42.948, 317.997



41, 42.948, 7.997



41, 42.948, 137.997



41, 42.948, 187.997

# Sweetspot

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



41, 42.947, 317.997



69, 16.138, 316.694



42, 28.344, 281.318



35, 11.125, 316.777



88, 0.010, 296.813



40, 0.006, 296.813





# Same Dimension

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



41, 42.947, 317.997



49, 63.755, 318.339



43, 39.571, 333.465



28, 5.159, 316.474



24, 74.448, 317.986



0, 3.453, 316.116



# Inverse Universe

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



42, 30.030, 2.494



50, 44.898, 4.602



54, 39.531, 146.719



28, 3.484, 357.590



28, 54.560, 20.586

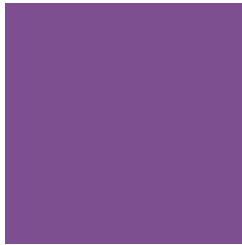


0, 2.310, 356.806



# Previews

## White Background



This preview shows how the CIELCh color 41, 42.948, 317.997 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, 42.948, 317.997 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

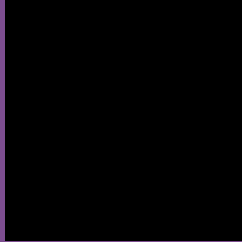
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 41, 42.948, 317.997**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 41, 42.948, 317.997.



This preview shows how white text looks on a background with the CIELCh color 41, 42.948, 317.997.

# 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, 42.948, 317.997

### Protanopia

41, 38.944, 285.943

### Deuteranopia

41, 27.591, 282.638





**Tritanopia**  
41, 13.122, 2.613

# Trichromacy



**Original Color**  
41, 42.948, 317.997

**Protanomaly**  
41, 39.494, 296.659

**Deuteranomaly**  
41, 31.736, 298.363

**Tritanomaly**  
41, 22.673, 332.143

# Monochromacy



**Original Color**  
41, 42.948, 317.997

**Achromatopsia**  
42, 0.006, 296.813

**Achromatomaly**  
41, 16.092, 316.828

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 41, 42.948, 317.997 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(125, 78, 144)` looks like.

```
.text, #text, p{  
    color:rgb(125, 78, 144)  
}
```

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(125, 78, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(125, 78, 144) }
```

## Border

The CSS property to change the border of an element to CIELCh 41, 42.948, 317.997 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(125, 78, 144) }
```

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

```
.border{ border-color:rgb(125, 78, 144) }
```

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

Here you see how a box with a 4 pixel rgb(125, 78, 144) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(125, 78, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(125, 78, 144);  
box-shadow:4px 4px 4px 4px rgb(125, 78,  
144) }
```

# Background

The CSS property to change the background color of an element to CIELCh 41, 42.948, 317.997 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(125, 78, 144) }
```

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

```
.background{ background-color: rgb(125, 78,  
144) }
```

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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