

# Converting Colors

CIELCh(42, 16.745, 320.629)

Have a look what the booklet for  
CIELCh(42, 16.745, 320.629)  
contains.

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# Color

**CIELCh(42, 17.311, 320.918)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	715C75
RGB	113, 92, 117
RGB Percent	44%, 36%, 46%
CMY	0.5561, 0.6385, 0.5404
CMYK	0.03, 0.21, 0.00, 0.54
HSL	290°, 12%, 41%
HSV	290°, 21%, 46%
XYZ	13.9015, 12.5000, 18.5704
YIQ	101.1290, 4.4910, 12.2270

# Conversions

## Conversions Part 2

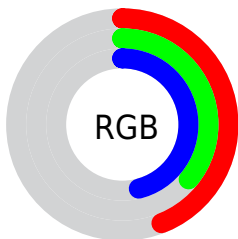
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	113, 92, 117
Decimal	7429237
CIE <sub>Lab</sub>	42.00, 13.44, -10.91
CIE <sub>LCh</sub>	42, 17.311, 320.918
Yxy	12.5000, 0.3091, 0.2780
Android (android.graphics.Color)	4285619317 (0xFF715C75)
YUV	101.1290, 7.8244, 10.4109
Hunter-Lab	35.3553, 8.3132, -6.3934

# Details

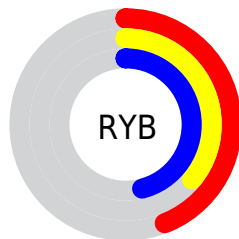
The CIELCh color  $42, 17.311, 320.918$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $47, 17.179, 138.945$ , and the grayscale version is  $43, 0.006, 296.813$ .

A 20% lighter version of the original color is  $62, 17.498, 321.055$ , and  $22, 17.438, 320.915$  is the 20% darker color. If you saturate the color by 10%, you get  $39, 25.493, 321.352$ , and if you desaturate by 10%, it is  $45, 9.139, 320.471$ .

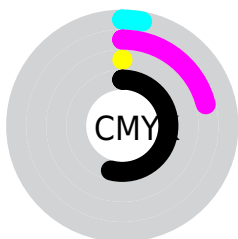
# Distribution



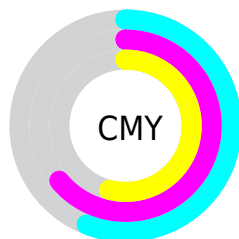
- Red (44%)
- Green (36%)
- Blue (46%)



- Red (44%)
- Yellow (36%)
- Blue (46%)



- Cyan (3%)
- Magenta (21%)
- Yellow (0%)
- Black (54%)




- Cyan (56%)
- Magenta (64%)
- Yellow (54%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 17.311, 320.918 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 42, 17.311, 320.918 by changing the saturation by 10% instead.





 42, 17.311,  
320.918


 42, 17.311,  
320.918


 100, 17.311,  
320.918


 32, 17.311,  
320.918

 62, 17.311,  
320.918


 22, 17.311,  
320.918


 72, 17.311,  
320.918

 12, 17.311,  
320.918


 82, 17.311,  
320.918

 2, 17.311, 320.918

 92, 17.311,  
320.918

 0, 17.311, 320.918

 42, 17.311,

 42, 17.311,

320.918

39, 25.493,  
321.352

36, 33.553,  
321.762

33, 41.296,  
322.125

30, 48.466,  
322.415

28, 54.750,  
322.600

26, 59.819,  
322.647

24, 63.407,  
322.525

23, 65.900,  
322.361

320.918

45, 9.139, 320.471

49, 1.072, 319.915

52, 6.835, 139.654

56, 14.550,  
139.241

59, 22.056,  
138.859

63, 29.349,  
138.504

67, 36.430,  
138.174

70, 43.304,  
137.870

74, 49.979,



# Harmonies

# Complementary

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



42, 17.311, 320.918



47, 17.179, 138.945

# Rectangle

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



42, 17.311, 320.918



42, 17.311, 10.918



42, 17.311, 140.918



42, 17.311, 190.918

# Sweetspot

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



42, 17.310, 320.918



61, 5.994, 320.231



41, 12.701, 284.924



31, 3.954, 320.254



82, 0.010, 296.813



33, 0.005, 296.813





# Same Dimension

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



42, 17.310, 320.918



52, 26.293, 321.152



42, 14.371, 337.135



23, 4.533, 320.366



25, 67.988, 322.336



52, 115.391, 322.025



# Inverse Universe

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



42, 11.002, 8.350



52, 16.904, 8.992



47, 14.224, 154.102



23, 2.810, 7.050



24, 54.369, 30.259



52, 94.965, 33.315



# Previews

## White Background



This preview shows how the CIELCh color 42, 17.311, 320.918 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 42, 17.311, 320.918 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 42, 17.311, 320.918

## Background



This preview shows how black text looks on a background with the CIELCh color 42, 17.311, 320.918.



This preview shows how white text looks on a background with the CIELCh color 42, 17.311, 320.918.

# 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

42, 17.311, 320.918

### Protanopia

42, 13.952, 286.050

### Deuteranopia

42, 11.631, 299.537





**Tritanopia**  
42, 7.927, 348.361

# Trichromacy



**Original Color**  
42, 17.311, 320.918

**Protanomaly**  
42, 14.698, 299.753

**Deuteranomaly**  
42, 13.369, 309.047

**Tritanomaly**  
42, 11.249, 332.275

# Monochromacy



**Original Color**  
42, 17.311, 320.918

**Achromatopsia**  
43, 0.006, 296.813

**Achromatomaly**  
42, 6.168, 318.465

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 42, 17.311, 320.918 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(113, 92, 117)` looks like.

```
.text, #text, p{  
    color:rgb(113, 92, 117)  
}
```

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(113, 92, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(113, 92, 117) }
```

## Border

The CSS property to change the border of an element to CIELCh 42, 17.311, 320.918 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(113, 92, 117) }
```

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

```
.border{ border-color:rgb(113, 92, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(113, 92, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(113, 92, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(113, 92, 117);  
box-shadow:4px 4px 4px 4px rgb(113, 92,  
117) }
```

# Background

The CSS property to change the background color of an element to CIELCh 42, 17.311, 320.918 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(113, 92, 117) }
```

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

```
.background{ background-color: rgb(113, 92,  
117) }
```

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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