

Converting Colors

CIELCh(42, 100.848, 312.640)

Have a look what the booklet for
CIELCh(42, 100.848, 312.640)
contains.

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Color

CIELCh(42, 100.848, 312.640)

Conversions

Conversions Part 1

Format	Color
Hex	872DE0
RGB	135, 45, 224
RGB Percent	53%, 18%, 88%
CMY	0.4689, 0.8218, 0.1200
CMYK	0.40, 0.80, 0.00, 0.12
HSL	270°, 75%, 53%
HSV	270°, 80%, 88%
XYZ	24.5241, 12.5000, 71.9303
YIQ	92.3160, -3.8190, 74.7490

Conversions

Conversions Part 2

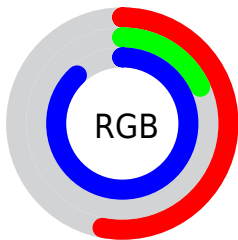
Format	Color
R _{YB}	135, 45, 224
Decimal	8859104
CIE Lab	42.00, 68.31, -74.19
CIE LCh	42, 100.848, 312.640
Yxy	12.5000, 0.2251, 0.1147
Android (android.graphics.Color)	4287049184 (0xFF872DE0)
YUV	92.3160, 64.9202, 37.4339
Hunter-Lab	35.3553, 61.9440, -95.8765

Details

The CIELCh color **42, 100.848, 312.640** is a dark color, and the websafe version is hex **6600CC**. The color can be described as middle washed purple. A complement of this color would be **81, 89.546, 126.596**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **60, 87.516, 315.309**, and **24, 91.919, 310.765** is the 20% darker color. If you saturate the color by 10%, you get **38, 108.551, 312.423**, and if you desaturate by 10%, it is **47, 90.476, 312.516**.

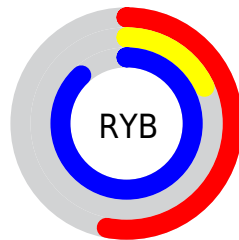
Distribution



Red (53%)

Green (18%)

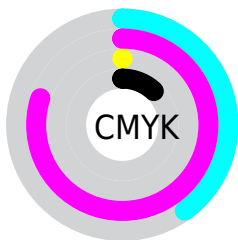
Blue (88%)



Red (53%)

Yellow (18%)

Blue (88%)

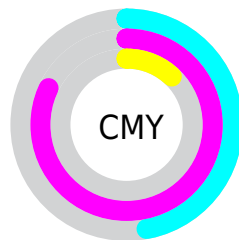


Cyan (40%)

Magenta (80%)

Yellow (0%)

Black (12%)



Cyan (47%)


Magenta (82%)


Yellow (12%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 100.848, 312.640 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, 100.848, 312.640 by changing the saturation by 10% instead.


 42, 100.848,
312.640


 42, 100.848,
312.640


 100, 100.848,
312.640


 32, 100.848,
312.640


 62, 100.848,
312.640


 22, 100.848,
312.640


 72, 100.848,
312.640


 12, 100.848,
312.640


 82, 100.848,
312.640

 2, 100.848,
312.640

 92, 100.848,
312.640

 0, 100.848,
312.640

 42, 100.848,

 42, 100.848,

312.640

312.640

■ 38, 108.551,
312.423

■ 47, 90.476,
312.516

■ 36, 113.274,
311.833

■ 52, 78.361,
312.166

■ 36, 113.381,
311.818

■ 58, 65.306,
311.689

■ 64, 51.882,
311.156

■ 70, 38.446,
310.613

■ 76, 25.206,
310.087

■ 83, 12.273,
309.592

■ 89, 0.297, 129.592

■ 96, 12.487,
128.764

Harmonies

Complementary

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



42, 100.848, 312.640



81, 89.546, 126.596

Rectangle

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



42, 100.848, 312.640



42, 100.848, 2.640



42, 100.848, 132.640



42, 100.848, 182.640

Sweetspot

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



42, 100.848, 312.641



83, 34.169, 310.316



55, 53.126, 275.608



42, 23.578, 310.506



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



42, 100.848, 312.641



42, 123.303, 312.020



55, 98.217, 328.012



44, 7.143, 309.578



27, 94.375, 312.001



4, 33.499, 310.415

Inverse Universe

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



51, 72.283, 355.487



55, 84.204, 1.500



79, 100.766, 137.107



44, 5.735, 344.549



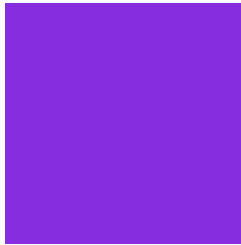
38, 64.148, 2.097



6, 26.403, 354.941

Previews

White Background



This preview shows how the CIELCh color 42, 100.848, 312.640 looks on a white background.

Color Contrast Check

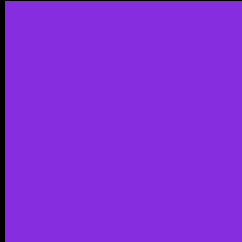
Large Text (above 18pt) WCAG AA ✓ Pass

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 42, 100.848, 312.640 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

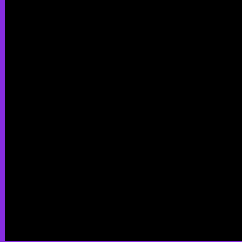
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 100.848, 312.640

Background



This preview shows how black text looks on a background with the CIELCh color 42, 100.848, 312.640.



This preview shows how white text looks on a background with the CIELCh color 42, 100.848,

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, 100.848, 312.640

Protanopia

42, 64.042, 286.692

Deuteranopia

42, 45.327, 273.972



Tritanopia
42, 7.587, 340.917

Trichromacy



Original Color
42, 100.848, 312.640

Protanomaly
39, 79.534, 297.009

Deuteranomaly
38, 67.486, 294.141

Tritanomaly
40, 44.686, 314.549

Monochromacy



Original Color
42, 100.848, 312.640

Achromatopsia
39, 0.006, 296.813

Achromatomaly
38, 41.300, 311.086

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 100.848, 312.640 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(135, 45, 224)` looks like.

```
.text, #text, p{  
    color:rgb(135, 45, 224)  
}
```

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(135, 45, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 45, 224) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 100.848, 312.640 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(135, 45, 224) }
```

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

```
.border{ border-color:rgb(135, 45, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 45, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 45, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 45, 224);  
box-shadow:4px 4px 4px 4px rgb(135, 45,  
224) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 100.848, 312.640 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 45, 224) }
```

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

```
.background{ background-color: rgb(135, 45,  
224) }
```

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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