

Converting Colors

CIELCh(42, 87.940, 316.319)

Have a look what the booklet for
CIELCh(42, 87.940, 316.319)
contains.

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Color

CIELCh(42, 87.866, 316.403)

Conversions

Conversions Part 1

Format	Color
Hex	9231C9
RGB	146, 49, 201
RGB Percent	57%, 19%, 79%
CMY	0.4279, 0.8083, 0.2122
CMYK	0.27, 0.76, 0.00, 0.21
HSL	278°, 61%, 49%
HSV	278°, 76%, 79%
XYZ	23.4582, 12.5000, 56.3679
YIQ	95.3310, 9.0200, 67.8360

Conversions

Conversions Part 2

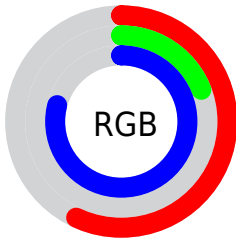
Format	Color
R _Y B	146, 49, 201
Decimal	9581001
CIE _{Lab}	42.00, 63.63, -60.59
CIE _{LCh}	42, 87.866, 316.403
Y _{xy}	12.5000, 0.2541, 0.1354
Android (android.graphics.Color)	4287771081 (0xFF9231C9)
YUV	95.3310, 52.0948, 44.4367
Hunter-Lab	35.3553, 56.5626, -69.7788

Details

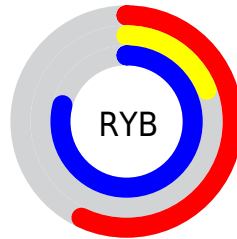
The CIELCh color **42, 87.866, 316.403** is a dark color, and the websafe version is hex **9933CC**. The color can be described as middle muted purple. A complement of this color would be **73, 82.400, 130.659**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **62, 86.157, 316.862**, and **24, 80.331, 314.875** is the 20% darker color. If you saturate the color by 10%, you get **39, 95.183, 316.217**, and if you desaturate by 10%, it is **46, 78.372, 316.331**.

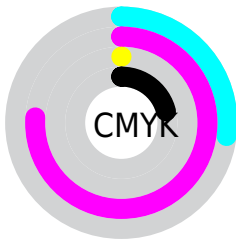
Distribution



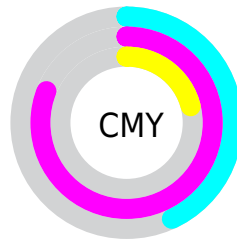
- Red (57%)
- Green (19%)
- Blue (79%)



- Red (57%)
- Yellow (19%)
- Blue (79%)



- Cyan (27%)
- Magenta (76%)
- Yellow (0%)
- Black (21%)



- Cyan (43%)
- Magenta (81%)
- Yellow (21%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 87.866, 316.403 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, 87.866, 316.403 by changing the saturation by 10% instead.

 42, 87.866,
316.403

 42, 87.866,
316.403

 100, 87.866,
316.403

 32, 87.866,
316.403

 62, 87.866,
316.403

 22, 87.866,
316.403

 72, 87.866,
316.403

 12, 87.866,
316.403

 82, 87.866,
316.403

 2, 87.866, 316.403

 92, 87.866,
316.403

 0, 87.866, 316.403

 42, 87.866,

 42, 87.866,

316.403

■ 39, 95.183,
316.217

■ 36, 99.799,
315.701

■ 36, 101.306,
315.428

316.403

■ 46, 78.372,
316.331

■ 51, 67.391,
316.078

■ 56, 55.540,
315.714

■ 61, 43.282,
315.290

■ 66, 30.935,
314.843

■ 72, 18.697,
314.395

■ 78, 6.686, 313.952

■ 83, 5.032, 133.608

■ 89, 16.426,
133.216

Harmonies

Complementary

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



42, 87.866, 316.403



73, 82.400, 130.659

Rectangle

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



42, 87.866, 316.403



42, 87.866, 6.403



42, 87.866, 136.403



42, 87.866, 186.403

Sweetspot

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



42, 87.865, 316.403



84, 33.574, 314.737



45, 57.519, 285.760



42, 23.312, 314.902



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, 87.865, 316.403



48, 117.944, 315.915



49, 79.981, 332.874



39, 6.666, 314.118



28, 86.729, 315.585



3, 23.094, 311.320

Inverse Universe

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



46, 62.414, 4.803



55, 83.062, 11.751



71, 83.369, 140.505



39, 4.772, 352.633



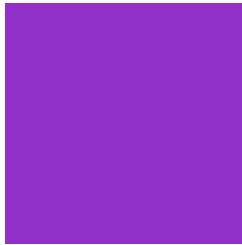
34, 61.184, 14.786



4, 16.816, 1.006

Previews

White Background



This preview shows how the CIELCh color 42, 87.866, 316.403 looks on a white background.

Color Contrast Check

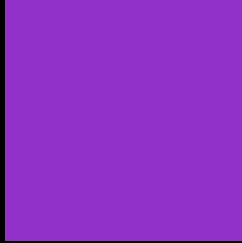
Large Text (above 18pt) WCAG AA ✓ Pass

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, 87.866, 316.403 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

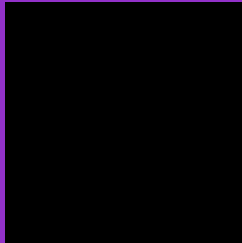
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

CIELCh 42, 87.866, 316.403

Background



This preview shows how black text looks on a background with the CIELCh color 42, 87.866, 316.403.



This preview shows how white text looks on a background with the CIELCh color 42, 87.866, 316.403.

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, 87.866, 316.403

Protanopia

42, 64.598, 286.917

Deuteranopia

42, 47.416, 275.765



Tritanopia
42, 17.801, 8.488

Trichromacy



Original Color
42, 87.866, 316.403

Protanomaly
39, 74.362, 296.363

Deuteranomaly
39, 62.678, 293.099

Tritanomaly
41, 41.934, 327.218

Monochromacy



Original Color
42, 87.866, 316.403

Achromatopsia
40, 0.006, 296.813

Achromatomaly
39, 36.539, 315.647

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 87.866, 316.403 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(146, 49, 201)` looks like.

```
.text, #text, p{  
    color:rgb(146, 49, 201)  
}
```

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(146, 49, 201) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 49, 201) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 87.866, 316.403 is called "border". The border property can be set on classes, ids or directly on the HTML element.

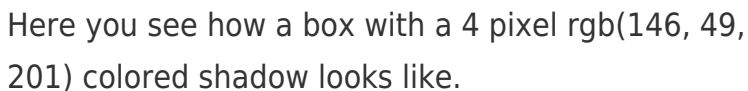
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(146, 49, 201) }
```

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

```
.border{ border-color:rgb(146, 49, 201) }
```

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



Here you see how a box with a 4 pixel `rgb(146, 49, 201)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(146, 49, 201); -webkit-box-  
shadow:4px 4px 4px 4px rgb(146, 49, 201);  
box-shadow:4px 4px 4px 4px rgb(146, 49,  
201) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 87.866, 316.403 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 49, 201) }
```

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

```
.background{ background-color: rgb(146, 49,  
201) }
```

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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