

Converting Colors

CIELCh(42, 80.633, 334.974)

Have a look what the booklet for
CIELCh(42, 80.633, 334.974)
contains.

CIELCh(42, 80.606, 334.827)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(42, 80.606, 334.827)

Conversions

Conversions Part 1

Format	Color
Hex	B7009D
RGB	183, 0, 157
RGB Percent	72%, 0%, 62%
CMY	0.2824, 1.0000, 0.3843
CMYK	0.00, 1.00, 0.14, 0.28
HSL	309°, 100%, 36%
HSV	309°, 100%, 72%
XYZ	25.6116, 12.5000, 32.9581
YIQ	72.6150, 58.6710, 87.6230

Conversions

Conversions Part 2

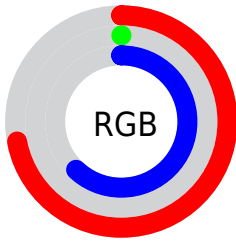
Format	Color
RYB	183, 0, 157
Decimal	11993245
CIELab	42.00, 72.95, -34.29
CIElCh	42, 80.606, 334.827
Yxy	12.5000, 0.3604, 0.1759
Android (android.graphics.Color)	4290183325 (0xFFB7009D)
YUV	72.6150, 41.6018, 96.8076
Hunter-Lab	35.3553, 67.4346, -30.5212

Details

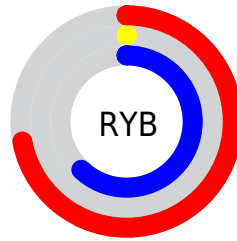
The CIELCh color **42, 80.606, 334.827** is a dark color, and the websafe version is hex **CC0099**. A complement of this color would be **65, 90.057, 137.503**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 80.574, 334.892**, and **28, 60.388, 335.527** is the 20% darker color. If you saturate the color by 10%, you get **42, 80.604, 334.827**, and if you desaturate by 10%, it is **43, 79.249, 334.138**.

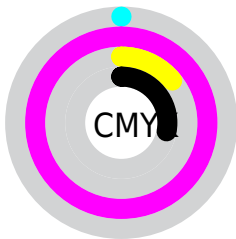
Distribution



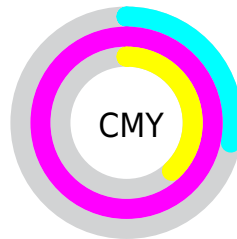
- Red (72%)
- Green (0%)
- Blue (62%)



- Red (72%)
- Yellow (0%)
- Blue (62%)



- Cyan (0%)
- Magenta (100%)
- Yellow (14%)
- Black (28%)




- Cyan (28%)
- Magenta (100%)
- Yellow (38%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 80.606, 334.827 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, 80.606, 334.827 by changing the saturation by 10% instead.


 42, 80.606,
334.827


 42, 80.606,
334.827


 100, 80.606,
334.827

 32, 80.606,
334.827

 62, 80.606,
334.827


 22, 80.606,
334.827

 72, 80.606,
334.827

 12, 80.606,
334.827

 82, 80.606,
334.827

 2, 80.606, 334.827

 92, 80.606,
334.827

 0, 80.606, 334.827

 42, 80.606,

 42, 80.606,

334.827

334.827

■ 42, 80.604,
334.827

■ 43, 79.249,
334.138

■ 44, 76.013,
333.486

■ 46, 70.534,
332.860

■ 49, 63.074,
332.242

■ 52, 54.062,
331.623

■ 56, 43.969,
331.002

■ 60, 33.222,
330.381

■ 65, 22.159,
329.763

■ 70, 11.030,
329.149

Harmonies

Complementary

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



42, 80.606, 334.827



65, 90.057, 137.503

Rectangle

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



42, 80.606, 334.827



42, 80.606, 24.827



42, 80.606, 154.827



42, 80.606, 204.827

Sweetspot

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



42, 80.603, 334.827



77, 41.009, 330.412



22, 103.458, 306.790



39, 28.140, 330.673



97, 0.011, 296.813



50, 0.007, 296.813

Same Dimension

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



42, 80.603, 334.827



54, 97.711, 334.954



39, 66.603, 14.843



36, 6.265, 329.108



35, 71.586, 334.733



3, 16.283, 330.964

Inverse Universe

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



42, 80.603, 334.827



54, 97.711, 334.954



66, 59.754, 156.973



36, 6.265, 329.108



35, 71.586, 334.733



3, 16.283, 330.964

Previews

White Background



This preview shows how the CIELCh color 42, 80.606, 334.827 looks on a white background.

Color Contrast Check

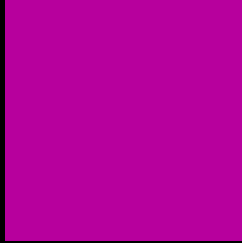
Large Text (above 18pt) WCAG AA ✓ Pass

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, 80.606, 334.827 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

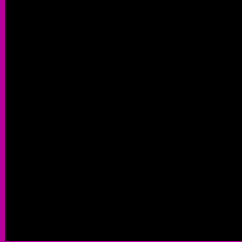
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 80.606, 334.827

Background



This preview shows how black text looks on a background with the CIELCh color 42, 80.606, 334.827.

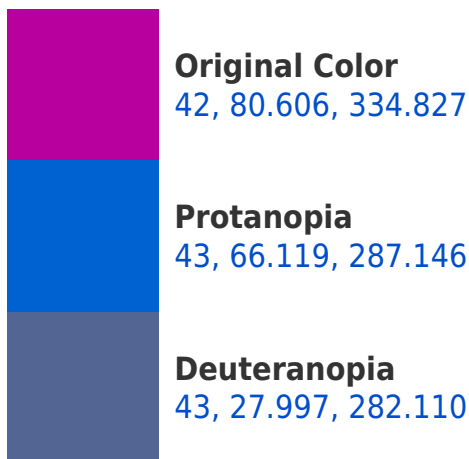


This preview shows how white text looks on a background with the CIELCh color 42, 80.606, 334.827.

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





Tritanopia
43, 51.780, 26.736

Trichromacy



Original Color
42, 80.606, 334.827



Protanomaly
35, 77.654, 301.751



Deuteranomaly
38, 55.212, 315.917



Tritanomaly
41, 58.430, 0.339

Monochromacy



Original Color
42, 80.606, 334.827



Achromatopsia
31, 0.005, 296.813



Achromatomaly
31, 42.686, 331.754

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 80.606, 334.827 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(183, 0, 157)` looks like.

```
.text, #text, p{  
    color:rgb(183, 0, 157)  
}
```

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(183, 0, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 0, 157) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 80.606, 334.827 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(183, 0, 157) }
```

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

```
.border{ border-color:rgb(183, 0, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(183, 0, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(183, 0, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(183, 0, 157);  
box-shadow:4px 4px 4px 4px rgb(183, 0,  
157) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 80.606, 334.827 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(183, 0, 157) }
```

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

```
.background{ background-color: rgb(183, 0,  
157) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor