

Converting Colors

CIELCh(42, 81.011, 335.043)

Have a look what the booklet for
CIELCh(42, 81.011, 335.043)
contains.

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Color

CIELCh(42, 80.640, 335.083)

Conversions

Conversions Part 1

Format	Color
Hex	B7009C
RGB	183, 0, 156
RGB Percent	72%, 0%, 61%
CMY	0.2806, 1.0000, 0.3863
CMYK	0.00, 1.00, 0.15, 0.28
HSL	309°, 100%, 36%
HSV	309°, 100%, 72%
XYZ	25.6552, 12.5000, 32.7289
YIQ	72.5010, 58.9920, 87.3120

Conversions

Conversions Part 2

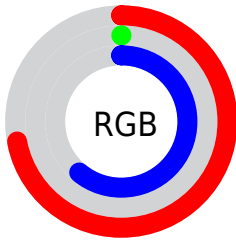
Format	Color
RYB	183, 0, 156
Decimal	11993244
CIELab	42.00, 73.13, -33.97
CIELCh	42, 80.640, 335.083
Yxy	12.5000, 0.3619, 0.1763
Android (android.graphics.Color)	4290183324 (0xFFB7009C)
YUV	72.5010, 41.1650, 96.9076
Hunter-Lab	35.3553, 67.6549, -30.1369

Details

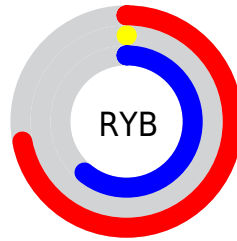
The CIELCh color **42, 80.640, 335.083** is a dark color, and the websafe version is hex **CC0099**. A complement of this color would be **65, 90.057, 137.578**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 80.234, 335.171**, and **28, 60.031, 335.960** is the 20% darker color. If you saturate the color by 10%, you get **42, 80.447, 335.091**, and if you desaturate by 10%, it is **43, 79.118, 334.374**.

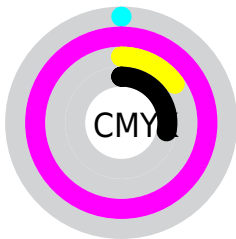
Distribution



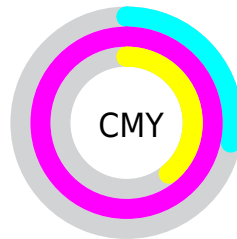
- Red (72%)
- Green (0%)
- Blue (61%)



- Red (72%)
- Yellow (0%)
- Blue (61%)



- Cyan (0%)
- Magenta (100%)
- Yellow (15%)
- Black (28%)





- Cyan (28%)
- Magenta (100%)
- Yellow (39%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 80.640, 335.083 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, 80.640, 335.083 by changing the saturation by 10% instead.


 42, 80.640,
335.083


 42, 80.640,
335.083


 100, 80.640,
335.083


 32, 80.640,
335.083

 62, 80.640,
335.083


 22, 80.640,
335.083

 72, 80.640,
335.083

 12, 80.640,
335.083

 82, 80.640,
335.083

 2, 80.640, 335.083

 92, 80.640,
335.083

 0, 80.640, 335.083

 42, 80.640,

 42, 80.640,

335.083

335.083

■ 42, 80.447,
335.091

■ 43, 79.118,
334.374

■ 44, 75.902,
333.701

■ 46, 70.440,
333.058

■ 49, 62.994,
332.428

■ 53, 53.994,
331.800

■ 56, 43.914,
331.172

■ 61, 33.180,
330.546

■ 65, 22.131,
329.925

■ 70, 11.018,
329.307

Harmonies

Complementary

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



42, 80.640, 335.083



65, 90.057, 137.578

Rectangle

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



42, 80.640, 335.083



42, 80.640, 25.083



42, 80.640, 155.083



42, 80.640, 205.083

Sweetspot

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



42, 80.447, 335.091



77, 41.229, 330.578



22, 103.647, 306.789



39, 28.047, 330.839



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, 80.447, 335.091



55, 98.126, 335.227



39, 66.725, 14.855



36, 6.244, 329.266



35, 71.323, 334.990



3, 16.205, 331.204

Inverse Universe

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



42, 80.447, 335.091



55, 98.126, 335.227



66, 59.866, 156.968



36, 6.244, 329.266



35, 71.323, 334.990



3, 16.205, 331.204

Previews

White Background



This preview shows how the CIELCh color 42, 80.640, 335.083 looks on a white background.

Color Contrast Check

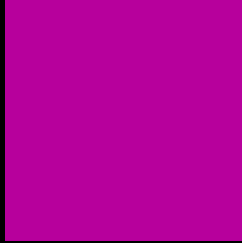
Large Text (above 18pt) WCAG AA ✓ Pass

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, 80.640, 335.083 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

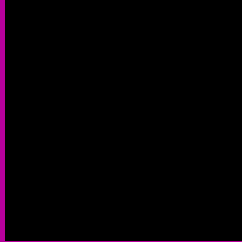
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 80.640, 335.083

Background



This preview shows how black text looks on a background with the CIELCh color 42, 80.640, 335.083.



This preview shows how white text looks on a background with the CIELCh color 42, 80.640, 335.083.

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, 80.268, 335.123

Protanopia

43, 66.119, 287.146

Deuteranopia

43, 27.948, 282.715



Tritanopia
43, 51.780, 26.736

Trichromacy



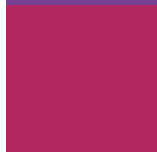
Original Color
42, 80.268, 335.123



Protanomaly
35, 77.654, 301.751



Deuteranomaly
38, 54.738, 316.491



Tritanomaly
41, 58.430, 0.339

Monochromacy



Original Color
42, 80.268, 335.123



Achromatopsia
31, 0.005, 296.813



Achromatomaly
31, 42.261, 332.314

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 80.640, 335.083 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, 156)` looks like.

```
.text, #text, p{  
    color:rgb(183, 0, 156)  
}
```

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, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 0, 156) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 80.640, 335.083 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, 156) }
```

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

```
.border{ border-color:rgb(183, 0, 156) }
```

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, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(183, 0, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(183, 0, 156);  
box-shadow:4px 4px 4px 4px rgb(183, 0,  
156) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 80.640, 335.083 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, 156) }
```

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

```
.background{ background-color: rgb(183, 0,  
156) }
```

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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