

Converting Colors

CIELCh(42, 85.789, 330.418)

Have a look what the booklet for
CIELCh(42, 85.789, 330.418)
contains.

CIELCh(42, 85.193, 330.568)	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, 85.193, 330.568)

Conversions

Conversions Part 1

Format	Color
Hex	B400AA
RGB	180, 0, 170
RGB Percent	71%, 0%, 67%
CMY	0.2960, 1.0000, 0.3351
CMYK	0.00, 1.00, 0.06, 0.30
HSL	303°, 100%, 35%
HSV	303°, 100%, 70%
XYZ	25.9095, 12.5000, 38.8577
YIQ	73.2000, 52.7100, 91.0300

Conversions

Conversions Part 2

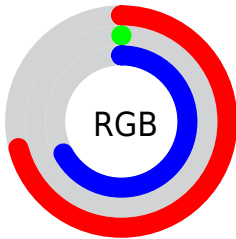
Format	Color
R_{YB}	180, 0, 170
Decimal	11796650
CIE _{Lab}	42.00, 74.20, -41.86
CIE _{LCh}	42, 85.193, 330.568
Yxy	12.5000, 0.3353, 0.1618
Android (android.graphics.Color)	4289986730 (0xFFB400AA)
YUV	73.2000, 47.7224, 93.6636
Hunter-Lab	35.3553, 68.9386, -40.4147

Details

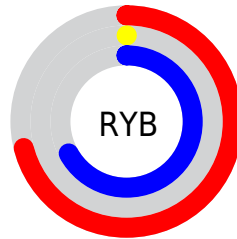
The CIELCh color **42, 85.193, 330.568** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **64, 91.007, 136.480**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 85.277, 330.638**, and **28, 64.929, 329.869** is the 20% darker color. If you saturate the color by 10%, you get **42, 85.029, 330.566**, and if you desaturate by 10%, it is **43, 83.199, 330.285**.

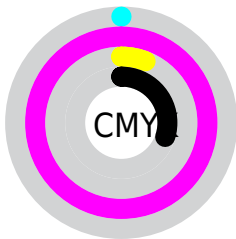
Distribution



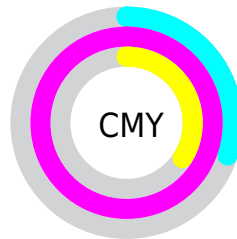
- Red (71%)
- Green (0%)
- Blue (67%)



- Red (71%)
- Yellow (0%)
- Blue (67%)



- Cyan (0%)
- Magenta (100%)
- Yellow (6%)
- Black (30%)




- Cyan (30%)
- Magenta (100%)
- Yellow (34%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 42, 85.193, 330.568 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, 85.193, 330.568 by changing the saturation by 10% instead.

 42, 85.193,
330.568


 42, 85.193,
330.568


 100, 85.193,
330.568


 32, 85.193,
330.568

 62, 85.193,
330.568


 22, 85.193,
330.568

 72, 85.193,
330.568

 12, 85.193,
330.568

 82, 85.193,
330.568

 2, 85.193, 330.568

 92, 85.193,
330.568

 0, 85.193, 330.568

 42, 85.193,

 42, 85.193,

330.568

330.568

■ 42, 85.029,
330.566

■ 43, 83.199,
330.285

■ 44, 79.540,
329.965

■ 46, 73.673,
329.592

■ 49, 65.832,
329.165

■ 52, 56.424,
328.688

■ 56, 45.906,
328.172

■ 60, 34.703,
327.629

■ 64, 23.161,
327.069

■ 68, 11.536,
326.499

Harmonies

Complementary

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



42, 85.193, 330.568



64, 91.007, 136.480

Rectangle

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



42, 85.193, 330.568



42, 85.193, 20.568



42, 85.193, 150.568



42, 85.193, 200.568

Sweetspot

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



42, 85.029, 330.566



76, 43.125, 327.658



21, 102.570, 306.440



38, 29.325, 327.885



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



42, 85.029, 330.566



55, 103.810, 330.609



38, 64.872, 6.700



35, 6.500, 326.459



36, 75.612, 330.535



3, 15.352, 326.785

Inverse Universe

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



42, 85.029, 330.566



55, 103.810, 330.609



64, 64.807, 151.854



35, 6.500, 326.459



36, 75.612, 330.535



3, 15.352, 326.785

Previews

White Background



This preview shows how the CIELCh color 42, 85.193, 330.568 looks on a white background.

Color Contrast Check

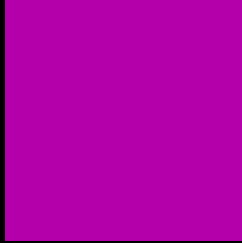
Large Text (above 18pt) WCAG AA ✓ Pass

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, 85.193, 330.568 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

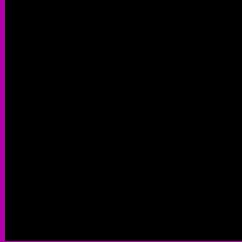
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 42, 85.193, 330.568

Background



This preview shows how black text looks on a background with the CIELCh color 42, 85.193, 330.568.

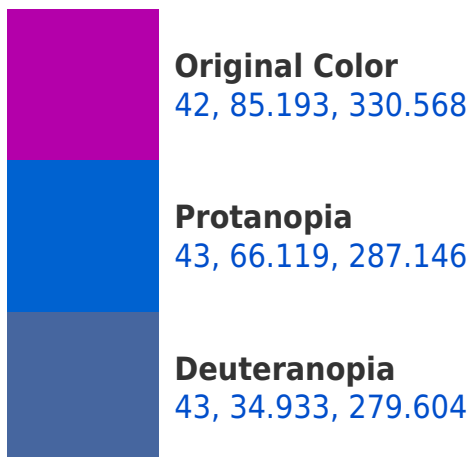


This preview shows how white text looks on a background with the CIELCh color 42, 85.193, 330.568.

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, 46.918, 24.710

Trichromacy



Original Color
42, 85.193, 330.568



Protanomaly
35, 80.455, 301.673



Deuteranomaly
37, 60.749, 310.857



Tritanomaly
41, 56.996, 354.253

Monochromacy



Original Color
42, 85.193, 330.568



Achromatopsia
31, 0.005, 296.813



Achromatomaly
31, 44.304, 329.167

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 42, 85.193, 330.568 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(180, 0, 170)` looks like.

```
.text, #text, p{  
    color:rgb(180, 0, 170)  
}
```

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(180, 0, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 0, 170) }
```

Border

The CSS property to change the border of an element to CIELCh 42, 85.193, 330.568 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(180, 0, 170) }
```

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

```
.border{ border-color:rgb(180, 0, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 0, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 0, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 0, 170);  
box-shadow:4px 4px 4px 4px rgb(180, 0,  
170) }
```

Background

The CSS property to change the background color of an element to CIELCh 42, 85.193, 330.568 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 0, 170) }
```

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

```
.background{ background-color: rgb(180, 0,  
170) }
```

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