

Converting Colors

CIELCh(37, 101.993, 316.126)

Have a look what the booklet for
CIELCh(37, 101.993, 316.126)
contains.

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Color

CIELCh(37, 102.000, 316.117)

Conversions

Conversions Part 1

Format	Color
Hex	8700CC
RGB	135, 0, 204
RGB Percent	53%, 0%, 80%
CMY	0.4700, 0.9986, 0.1994
CMYK	0.34, 1.00, 0.00, 0.20
HSL	280°, 100%, 40%
HSV	280°, 100%, 80%
XYZ	20.9363, 9.5379, 57.9555
YIQ	63.6210, 14.9760, 92.0640

Conversions

Conversions Part 2

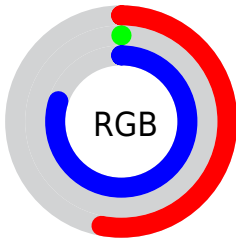
Format	Color
RYB	135, 0, 204
Decimal	8847564
CIELab	37.00, 73.52, -70.71
CIELCh	37, 102.000, 316.117
Yxy	9.5379, 0.2368, 0.1079
Android (android.graphics.Color)	4287037644 (0xFF8700CC)
YUV	63.6210, 69.2068, 62.5994
Hunter-Lab	30.8835, 66.9612, -89.6441

Details

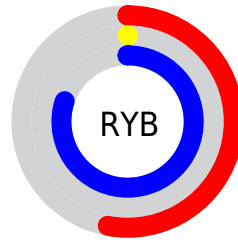
The CIELCh color **37, 102.000, 316.117** is a dark color, and the websafe version is hex **9900CC**. The color can be described as dark washed purple. A complement of this color would be **73, 96.733, 132.474**, and the grayscale version is **27, 0.004, 296.813**.

A 20% lighter version of the original color is **56, 98.953, 316.843**, and **22, 82.902, 312.250** is the 20% darker color. If you saturate the color by 10%, you get **37, 102.061, 316.106**, and if you desaturate by 10%, it is **39, 98.331, 316.722**.

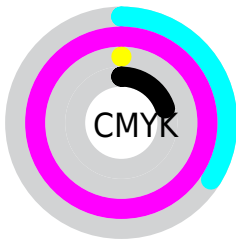
Distribution



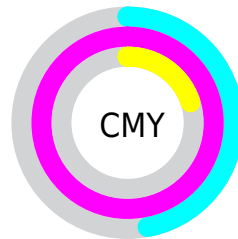
- Red (53%)
- Green (0%)
- Blue (80%)



- Red (53%)
- Yellow (0%)
- Blue (80%)



- Cyan (34%)
- Magenta (100%)
- Yellow (0%)
- Black (20%)





- Cyan (47%)
- Magenta (100%)
- Yellow (20%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 37, 102.000, 316.117 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 37, 102.000, 316.117 by changing the saturation by 10% instead.


 37, 102.000,
316.117


 37, 102.000,
316.117


 100, 102.000,
316.117


 27, 102.000,
316.117


 57, 102.000,
316.117


 17, 102.000,
316.117


 67, 102.000,
316.117

 7, 102.000,
316.117

 77, 102.000,
316.117

 0, 102.000,
316.117

 87, 102.000,
316.117

 97, 102.000,
316.117

■ 37, 102.000,
316.117

■ 37, 102.000,
316.117

■ 37, 102.061,
316.106

■ 39, 98.331,
316.722

■ 42, 92.197,
317.044

■ 45, 83.582,
317.082

■ 50, 73.125,
316.912

■ 55, 61.490,
316.602

■ 60, 49.219,
316.210

■ 65, 36.702,
315.778

■ 71, 24.197,

315.333

■ 76, 11.864,
314.893

Harmonies

Complementary

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



37, 102.000, 316.117



73, 96.733, 132.474

Rectangle

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



37, 102.000, 316.117



37, 102.000, 6.117



37, 102.000, 136.117



37, 102.000, 186.117

Sweetspot

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



37, 102.000, 316.117



80, 44.246, 315.803



36, 80.946, 295.840



40, 30.255, 315.990



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



37, 102.000, 316.117



46, 120.792, 315.974



47, 86.833, 335.305



40, 6.846, 314.874



30, 87.334, 316.257



3, 25.585, 313.207

Inverse Universe

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



43, 73.006, 17.879



54, 86.699, 18.778



72, 97.587, 137.546



40, 4.810, 354.165



35, 62.359, 17.053



4, 18.730, 2.918

Previews

White Background



This preview shows how the CIELCh color 37, 102.000, 316.117 looks on a white background.

Color Contrast Check

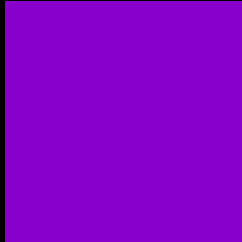
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIELCh color 37, 102.000, 316.117 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

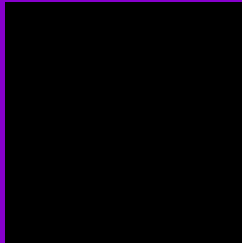
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 37, 102.000, 316.117

Background



This preview shows how black text looks on a background with the CIELCh color 37, 102.000, 316.117.



This preview shows how white text looks on a background with the CIELCh color 37, 102.000, 316.117.

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

37, 102.000, 316.117

Protanopia

38, 58.569, 286.347

Deuteranopia

38, 41.755, 273.560



Tritanopia
38, 14.955, 7.639

Trichromacy



Original Color
37, 102.000, 316.117

Protanomaly
32, 82.521, 301.334

Deuteranomaly
31, 71.681, 299.445

Tritanomaly
34, 52.060, 324.195

Monochromacy



Original Color
37, 102.000, 316.117

Achromatopsia
27, 0.004, 296.813

Achromatomaly
27, 49.109, 316.969

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 102.000, 316.117 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, 0, 204)` looks like.

```
.text, #text, p{  
    color:rgb(135, 0, 204)  
}
```

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, 0, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 0, 204) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 102.000, 316.117 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, 0, 204) }
```

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

```
.border{ border-color:rgb(135, 0, 204) }
```

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

Here you see how a box with a 4 pixel rgb(135, 0, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 0, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 0, 204);  
box-shadow:4px 4px 4px 4px rgb(135, 0,  
204) }
```

Background

The CSS property to change the background color of an element to CIELCh 37, 102.000, 316.117 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 0, 204) }
```

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

```
.background{ background-color: rgb(135, 0,  
204) }
```

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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