

Converting Colors

CIELCh(37, 83.189, 301.676)

Have a look what the booklet for
CIELCh(37, 83.189, 301.676)
contains.

CIELCh(37, 83.288, 301.739)	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(37, 83.288, 301.739)

Conversions

Conversions Part 1

Format	Color
Hex	4642CC
RGB	70, 66, 204
RGB Percent	27%, 26%, 80%
CMY	0.7260, 0.7415, 0.2004
CMYK	0.66, 0.68, 0.00, 0.20
HSL	242°, 57%, 53%
HSV	242°, 68%, 80%
XYZ	15.3458, 9.5379, 58.0922
YIQ	82.9280, -41.9140, 43.7660

Conversions

Conversions Part 2

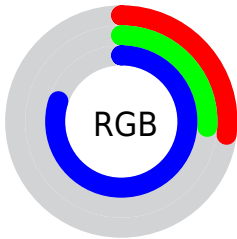
Format	Color
R_{YB}	70, 66, 204
Decimal	4604620
CIE _{Lab}	37.00, 43.81, -70.83
CIE _{LCh}	37, 83.288, 301.739
Yxy	9.5379, 0.1849, 0.1149
Android (android.graphics.Color)	4282794700 (0xFF4642CC)
YUV	82.9280, 59.6885, -11.3379
Hunter-Lab	30.8835, 34.6492, -89.9066

Details

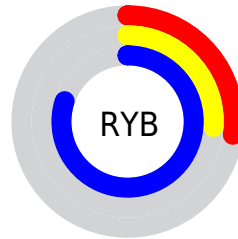
The CIELCh color **37, 83.288, 301.739** is a dark color, and the websafe version is hex **3333CC**. The color can be described as dark muted blue. A complement of this color would be **79, 67.470, 105.541**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **57, 79.519, 301.624**, and **19, 81.423, 303.711** is the 20% darker color. If you saturate the color by 10%, you get **32, 95.706, 303.704**, and if you desaturate by 10%, it is **43, 70.037, 299.683**.

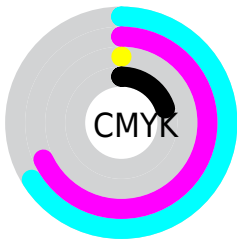
Distribution



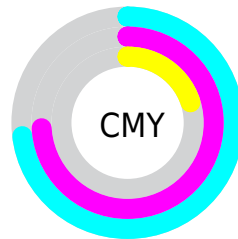
- Red (27%)
- Green (26%)
- Blue (80%)



- Red (27%)
- Yellow (26%)
- Blue (80%)



- Cyan (66%)
- Magenta (68%)
- Yellow (0%)
- Black (20%)





- Cyan (73%)
- Magenta (74%)
- Yellow (20%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 37, 83.288, 301.739 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, 83.288, 301.739 by changing the saturation by 10% instead.


 37, 83.288,
301.739


 37, 83.288,
301.739

 100, 83.288,
301.739


 27, 83.288,
301.739

 57, 83.288,
301.739


 17, 83.288,
301.739


 67, 83.288,
301.739

 7, 83.288, 301.739

 77, 83.288,
301.739

 0, 83.288, 301.739

 87, 83.288,
301.739

 97, 83.288,
301.739

■ 37, 83.288,
301.739

■ 37, 83.288,
301.739

■ 32, 95.706,
303.704

■ 43, 70.037,
299.683

■ 28, 105.745,
305.268

■ 50, 56.809,
297.733

■ 25, 111.804,
306.177

■ 56, 43.965,
295.985

■ 25, 112.921,
306.362

■ 63, 31.617,
294.463

■ 70, 19.777,
293.160

■ 77, 8.420, 292.054

■ 84, 2.490, 111.082

■ 90, 12.984,
110.297

■ 97, 23.093,
109.614

Harmonies

Complementary

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



37, 83.288, 301.739



79, 67.470, 105.541

Rectangle

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



37, 83.288, 301.739



37, 83.288, 351.739



37, 83.288, 121.739



37, 83.288, 171.739

Sweetspot

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



37, 83.288, 301.740



84, 26.978, 293.477



75, 36.768, 198.722



42, 18.514, 293.842



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, 83.288, 301.740



38, 118.964, 304.459



44, 81.495, 312.835



39, 6.246, 292.231



19, 96.776, 306.384



1, 23.549, 293.189

Inverse Universe

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



53, 81.103, 328.620



62, 107.123, 329.061



75, 73.937, 126.890



40, 7.393, 325.713



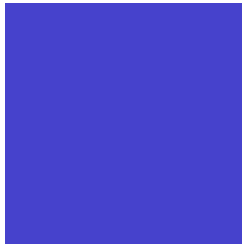
39, 81.863, 329.398



5, 28.383, 328.433

Previews

White Background



This preview shows how the CIE LCh color 37, 83.288, 301.739 looks on a white background.

Color Contrast Check

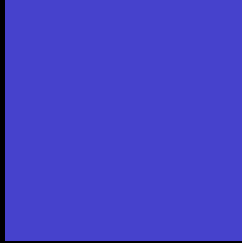
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIE LCh color 37, 83.288, 301.739 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

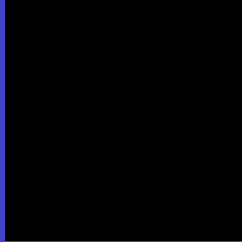
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 37, 83.288, 301.739

Background



This preview shows how black text looks on a background with the CIELCh color 37, 83.288, 301.739.



This preview shows how white text looks on a background with the CIELCh color 37, 83.288, 301.739.

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, 83.288, 301.739

Protanopia

37, 57.005, 286.055

Deuteranopia

37, 40.195, 272.926



Tritanopia
37, 23.702, 207.296

Trichromacy



Original Color
37, 83.288, 301.739

Protanomaly
36, 67.057, 292.530

Deuteranomaly
36, 55.247, 287.536

Tritanomaly
35, 35.905, 273.017

Monochromacy



Original Color
37, 83.288, 301.739

Achromatopsia
35, 0.005, 296.813

Achromatomaly
35, 31.233, 295.758

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 83.288, 301.739 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(70, 66, 204)` looks like.

```
.text, #text, p{  
    color:rgb(70, 66, 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(70, 66, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 66, 204) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 83.288, 301.739 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(70, 66, 204) }
```

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

```
.border{ border-color:rgb(70, 66, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 66, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 66, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 66, 204);  
box-shadow:4px 4px 4px 4px rgb(70, 66,  
204) }
```

Background

The CSS property to change the background color of an element to CIELCh 37, 83.288, 301.739 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 66, 204) }
```

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

```
.background{ background-color: rgb(70, 66,  
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](#).

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