

Converting Colors

CIELCh(37, 120.647, 303.346)

Have a look what the booklet for
CIELCh(37, 120.647, 303.346)
contains.

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Color

CIELCh(37, 119.845, 303.276)

Conversions

Conversions Part 1

Format	Color
Hex	0C31FF
RGB	12, 49, 255
RGB Percent	5%, 19%, 100%
CMY	0.9523, 0.8068, 0.0000
CMYK	0.95, 0.81, 0.00, 0.00
HSL	231°, 100%, 52%
HSV	231°, 95%, 100%
XYZ	19.3631, 9.5379, 95.6932
YIQ	61.4210, -88.1780, 56.2220

Conversions

Conversions Part 2

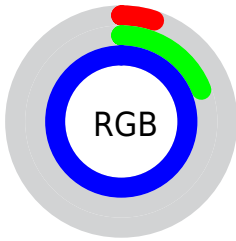
Format	Color
R_YB	12, 44, 255
Decimal	799231
CIE _{Lab}	37.00, 65.76, -100.19
CIE _{LCh}	37, 119.845, 303.276
Yxy	9.5379, 0.1554, 0.0766
Android (android.graphics.Color)	4278989311 (0xFF0C31FF)
YUV	61.4210, 95.4344, -43.3422
Hunter-Lab	30.8835, 57.8681, -162.0928

Details

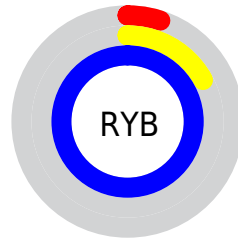
The CIELCh color **37, 119.845, 303.276** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark saturated blue. A complement of this color would be **88, 86.702, 92.183**, and the grayscale version is **26, 0.004, 296.813**.

A 20% lighter version of the original color is **52, 88.756, 302.565**, and **24, 109.772, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **35, 124.318, 304.220**, and if you desaturate by 10%, it is **41, 107.925, 300.797**.

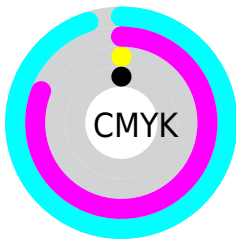
Distribution



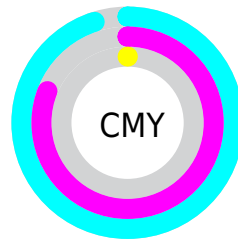
- Red (5%)
- Green (19%)
- Blue (100%)



- Red (5%)
- Yellow (17%)
- Blue (100%)



- Cyan (95%)
- Magenta (81%)
- Yellow (0%)
- Black (0%)





- Cyan (95%)
- Magenta (81%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 37, 119.845, 303.276 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, 119.845, 303.276 by changing the saturation by 10% instead.


 37, 119.845,
303.276


 37, 119.845,
303.276


 100, 119.845,
303.276


 27, 119.845,
303.276


 57, 119.845,
303.276


 17, 119.845,
303.276


 67, 119.845,
303.276

 7, 119.845,
303.276

 77, 119.845,
303.276

 0, 119.845,
303.276

 87, 119.845,
303.276

 97, 119.845,
303.276

■ 37, 119.845,
303.276

■ 37, 119.845,
303.276

■ 35, 124.318,
304.220

■ 41, 107.925,
300.797

■ 47, 94.523,
298.011

■ 53, 80.701,
295.205

■ 60, 67.087,
292.581

■ 67, 53.915,
290.238

■ 74, 41.230,
288.202

■ 82, 29.010,
286.456

■ 89, 17.220,

284.970

■ 96, 5.822, 283.717

Harmonies

Complementary

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



37, 119.845, 303.276



88, 86.702, 92.183

Rectangle

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



37, 119.845, 303.276



37, 119.845, 353.276



37, 119.845, 123.276



37, 119.845, 173.276

Sweetspot

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



37, 119.700, 303.269



79, 33.570, 287.083



90, 58.992, 174.812



39, 23.209, 287.837



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, 119.700, 303.269



35, 124.318, 304.220



38, 127.052, 308.781



49, 6.372, 284.224



26, 98.909, 303.865



5, 39.267, 298.829

Inverse Universe

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



54, 93.777, 31.523



53, 96.955, 33.829



92, 102.149, 121.200



50, 5.350, 7.719



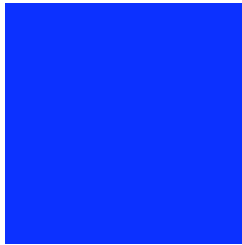
40, 77.338, 32.903



10, 32.264, 20.903

Previews

White Background



This preview shows how the CIELCh color 37, 119.845, 303.276 looks on a white background.

Color Contrast Check

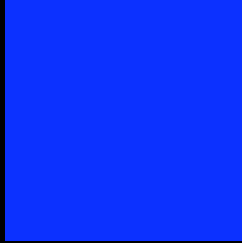
Large Text (above 18pt) WCAG AA ✓ Pass

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, 119.845, 303.276 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

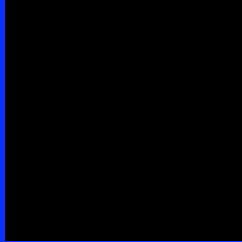
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 37, 119.845, 303.276

Background



This preview shows how black text looks on a background with the CIELCh color 37, 119.845, 303.276.



This preview shows how white text looks on a background with the CIELCh color 37, 119.845,

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, 119.823, 303.297

Protanopia

36, 56.505, 286.039

Deuteranopia

37, 38.630, 271.196



Tritanopia
37, 23.954, 202.533

Trichromacy



Original Color
37, 119.823, 303.297

Protanomaly
36, 80.738, 295.999

Deuteranomaly
35, 69.124, 292.511

Tritanomaly
34, 48.721, 283.037

Monochromacy



Original Color
37, 119.823, 303.297

Achromatopsia
26, 0.004, 296.813

Achromatomaly
27, 48.413, 294.982

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 119.845, 303.276 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(12, 49, 255)` looks like.

```
.text, #text, p{  
    color:rgb(12, 49, 255)  
}
```

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(12, 49, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 49, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 119.845, 303.276 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(12, 49, 255) }
```

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

```
.border{ border-color:rgb(12, 49, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 49, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 49, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 49, 255);  
box-shadow:4px 4px 4px 4px rgb(12, 49,  
255) }
```

Background

The CSS property to change the background color of an element to CIELCh 37, 119.845, 303.276 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 49, 255) }
```

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

```
.background{ background-color: rgb(12, 49,  
255) }
```

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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