

Converting Colors

CIELCh(37, 119.172, 302.982)

Have a look what the booklet for
CIELCh(37, 119.172, 302.982)
contains.

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Color

CIELCh(37, 118.998, 302.938)

Conversions

Conversions Part 1

Format	Color
Hex	0033FF
RGB	0, 51, 255
RGB Percent	0%, 20%, 100%
CMY	1.0000, 0.8009, 0.0011
CMYK	1.00, 0.80, 0.00, 0.00
HSL	228°, 100%, 50%
HSV	228°, 100%, 100%
XYZ	19.1559, 9.5379, 95.2075
YIQ	59.0070, -95.8800, 52.6320

Conversions

Conversions Part 2

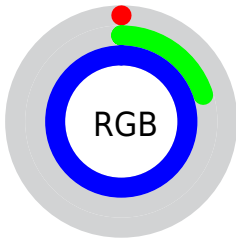
Format	Color
R _Y B	0, 43, 255
Decimal	13311
CIE Lab	37.00, 64.70, -99.87
CIE LCh	37, 118.998, 302.938
Yxy	9.5379, 0.1546, 0.0770
Android (android.graphics.Color)	4278203391 (0xFF0033FF)
YUV	59.0070, 96.6245, -51.7491
Hunter-Lab	30.8835, 56.6710, -161.1603

Details

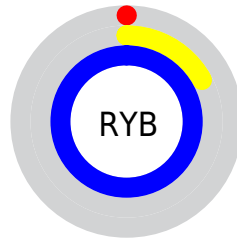
The CIELCh color **37, 118.998, 302.938** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark saturated blue. A complement of this color would be **84, 85.260, 87.591**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **52, 88.192, 302.093**, and **24, 109.772, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **37, 118.981, 302.958**, and if you desaturate by 10%, it is **41, 107.813, 300.373**.

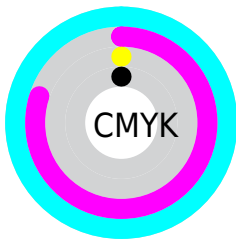
Distribution



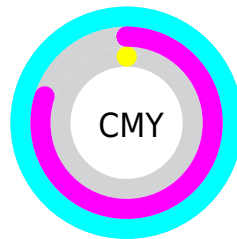
- Red (0%)
- Green (20%)
- Blue (100%)



- Red (0%)
- Yellow (17%)
- Blue (100%)



- Cyan (100%)
- Magenta (80%)
- Yellow (0%)
- Black (0%)





- Cyan (100%)
- Magenta (80%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 37, 118.998, 302.938 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, 118.998, 302.938 by changing the saturation by 10% instead.


 37, 118.998,
302.938


 37, 118.998,
302.938


 100, 118.998,
302.938


 27, 118.998,
302.938


 57, 118.998,
302.938


 17, 118.998,
302.938


 67, 118.998,
302.938

 7, 118.998,
302.938

 77, 118.998,
302.938

 0, 118.998,
302.938

 87, 118.998,
302.938

 97, 118.998,
302.938

■ 37, 118.998,
302.938

■ 37, 118.998,
302.938

■ 37, 118.981,
302.958

■ 41, 107.813,
300.373

■ 46, 95.161,
297.406

■ 52, 82.080,
294.382

■ 59, 69.163,
291.520

■ 65, 56.638,
288.940

■ 72, 44.551,
286.684

■ 79, 32.879,
284.742

■ 86, 21.586,

283.084

■ 93, 10.639,
281.675

Harmonies

Complementary

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



37, 118.998, 302.938



84, 85.260, 87.591

Rectangle

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



37, 118.998, 302.938



37, 118.998, 352.938



37, 118.998, 122.938



37, 118.998, 172.938

Sweetspot

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



37, 118.981, 302.958



79, 32.908, 284.742



90, 62.435, 170.447



39, 22.602, 285.524



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, 118.981, 302.958



37, 119.084, 302.960



36, 130.053, 308.151



49, 6.050, 281.611



27, 94.533, 302.525



6, 37.678, 297.630

Inverse Universe

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



53, 93.872, 30.666



53, 93.952, 30.670



92, 102.315, 120.164



50, 5.428, 4.137



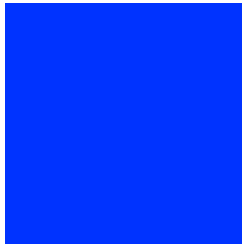
40, 74.980, 29.649



10, 31.988, 18.770

Previews

White Background



This preview shows how the CIE LCh color 37, 118.998, 302.938 looks on a white background.

Color Contrast Check

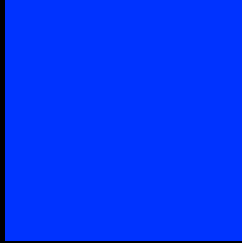
Large Text (above 18pt) WCAG AA ✓ Pass

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, 118.998, 302.938 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, 118.998, 302.938

Background



This preview shows how black text looks on a background with the CIELCh color 37, 118.998, 302.938.



This preview shows how white text looks on a background with the CIELCh color 37, 118.998, 302.938.

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, 118.998, 302.938

Protanopia

37, 57.074, 286.307

Deuteranopia

37, 38.630, 271.196



Tritanopia
37, 23.954, 202.533

Trichromacy



Original Color
37, 118.998, 302.938

Protanomaly
36, 81.317, 296.013

Deuteranomaly
35, 69.150, 292.377

Tritanomaly
34, 48.144, 282.131

Monochromacy



Original Color
37, 118.998, 302.938

Achromatopsia
25, 0.004, 296.813

Achromatomaly
26, 48.005, 293.795

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 37, 118.998, 302.938 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(0, 51, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 51, 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(0, 51, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 51, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 37, 118.998, 302.938 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(0, 51, 255) }
```

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

```
.border{ border-color:rgb(0, 51, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 51, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 51, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 51, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 51, 255)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 37, 118.998, 302.938 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 51, 255) }
```

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

```
.background{ background-color: rgb(0, 51,  
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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