

Converting Colors

CIELCh(38, 117.611, 302.587)

Have a look what the booklet for
CIELCh(38, 117.611, 302.587)
contains.

CIELCh(38, 116.934, 302.530)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	25
<i>CSS Examples</i>	27

Color

CIELCh(38, 116.934, 302.530)

Conversions

Conversions Part 1

Format	Color
Hex	0C37FF
RGB	12, 55, 255
RGB Percent	5%, 22%, 100%
CMY	0.9535, 0.7830, 0.0000
CMYK	0.95, 0.78, 0.00, 0.00
HSL	229°, 100%, 52%
HSV	229°, 95%, 100%
XYZ	19.6478, 10.0881, 95.8694
YIQ	64.9430, -89.8280, 53.0840

Conversions

Conversions Part 2

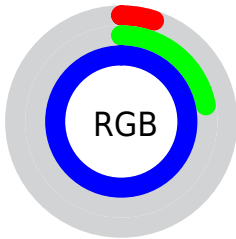
Format	Color
R _Y B	12, 49, 255
Decimal	800767
CIE Lab	38.00, 62.88, -98.59
CIE LCh	38, 116.934, 302.530
Yxy	10.0881, 0.1564, 0.0803
Android (android.graphics.Color)	4278990847 (0xFF0C37FF)
YUV	64.9430, 93.6981, -46.4310
Hunter-Lab	31.7617, 54.8370, -156.7275

Details

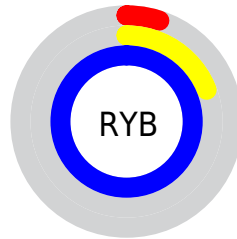
The CIELCh color **38, 116.934, 302.530** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark saturated blue. A complement of this color would be **86, 85.505, 90.045**, and the grayscale version is **27, 0.004, 296.813**.

A 20% lighter version of the original color is **53, 85.746, 301.598**, and **24, 109.285, 306.061** is the 20% darker color. If you saturate the color by 10%, you get **36, 121.507, 303.555**, and if you desaturate by 10%, it is **43, 104.787, 299.851**.

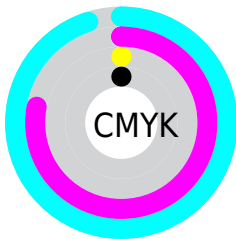
Distribution



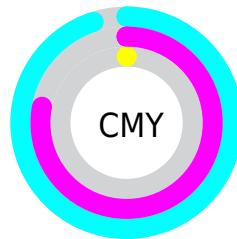
- Red (5%)
- Green (22%)
- Blue (100%)



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



- Cyan (95%)
- Magenta (78%)
- Yellow (0%)
- Black (0%)





- Cyan (95%)
- Magenta (78%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 38, 116.934, 302.530 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 38, 116.934, 302.530 by changing the saturation by 10% instead.


 38, 116.934,
302.530


 38, 116.934,
302.530


 100, 116.934,
302.530


 28, 116.934,
302.530


 58, 116.934,
302.530


 18, 116.934,
302.530


 68, 116.934,
302.530

 8, 116.934,
302.530

 78, 116.934,
302.530

 0, 116.934,
302.530

 88, 116.934,
302.530

 98, 116.934,
302.530

■ 38, 116.934,
302.530

■ 38, 116.934,
302.530

■ 36, 121.507,
303.555

■ 43, 104.787,
299.851

■ 48, 91.604,
296.928

■ 54, 78.194,
294.029

■ 61, 65.053,
291.338

■ 68, 52.348,
288.944

■ 75, 40.102,
286.867

■ 82, 28.285,
285.086

■ 89, 16.860,

283.569

■ 96, 5.795, 282.291

Harmonies

Complementary

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



38, 116.934, 302.530



86, 85.505, 90.045

Rectangle

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



38, 116.934, 302.530



38, 116.934, 352.530



38, 116.934, 122.530



38, 116.934, 172.530

Sweetspot

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



38, 116.737, 302.518



79, 32.548, 285.703



90, 60.229, 173.021



39, 22.493, 286.472



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



38, 116.737, 302.518



36, 121.507, 303.555



37, 127.487, 308.525



49, 6.190, 282.792



27, 96.546, 303.154



6, 38.408, 298.198

Inverse Universe

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



54, 92.283, 29.743



53, 95.266, 32.122



92, 101.667, 120.445



50, 5.391, 5.698



40, 76.004, 31.137



10, 32.109, 19.755

Previews

White Background



This preview shows how the CIELCh color 38, 116.934, 302.530 looks on a white background.

Color Contrast Check

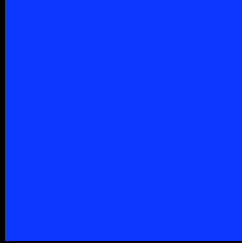
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 38, 116.934, 302.530 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

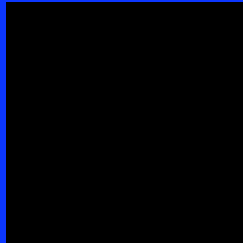
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 38, 116.934, 302.530

Background



This preview shows how black text looks on a background with the CIELCh color 38, 116.934, 302.530.

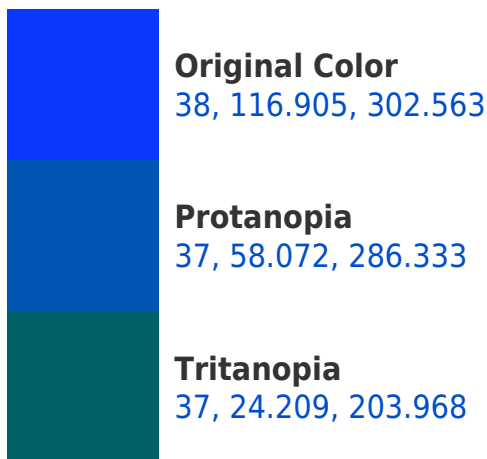


This preview shows how white text looks on a background with the CIELCh color 38, 116.934, 302.530.

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



Trichromacy



Original Color
38, 116.905, 302.563

Protanomaly
37, 80.997, 295.585

Tritanomaly
35, 48.003, 281.785

Monochromacy



Original Color
38, 116.905, 302.563

Achromatopsia
28, 0.004, 296.813

Achromatomaly
28, 46.825, 293.698

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 38, 116.934, 302.530 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, 55, 255)` looks like.

```
.text, #text, p{  
    color:rgb(12, 55, 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, 55, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 55, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 38, 116.934, 302.530 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, 55, 255) }
```

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

```
.border{ border-color:rgb(12, 55, 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, 55, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 55, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 55, 255);  
box-shadow:4px 4px 4px 4px rgb(12, 55,  
255) }
```

Background

The CSS property to change the background color of an element to CIELCh 38, 116.934, 302.530 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 55, 255) }
```

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

```
.background{ background-color: rgb(12, 55,  
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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