

Converting Colors

CIELCh(31, 120.027, 305.019)

Have a look what the booklet for
CIELCh(31, 120.027, 305.019)
contains.

CIELCh(31, 120.021, 305.072)	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>	28

Color

CIELCh(31, 120.021, 305.072)

Conversions

Conversions Part 1

Format	Color
Hex	0119EA
RGB	1, 25, 234
RGB Percent	0%, 10%, 92%
CMY	0.9970, 0.9016, 0.0819
CMYK	1.00, 0.89, 0.00, 0.08
HSL	234°, 99%, 46%
HSV	234°, 100%, 92%
XYZ	15.2259, 6.6515, 78.4051
YIQ	41.6500, -81.3930, 59.9110

Conversions

Conversions Part 2

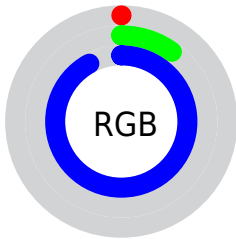
Format	Color
R _Y B	1, 23, 234
Decimal	72170
CIE Lab	31.00, 68.96, -98.23
CIE LCh	31, 120.021, 305.072
Yxy	6.6515, 0.1518, 0.0663
Android (android.graphics.Color)	4278262250 (0xFF0119EA)
YUV	41.6500, 94.8285, -35.6501
Hunter-Lab	25.7905, 60.2472, -162.1929

Details

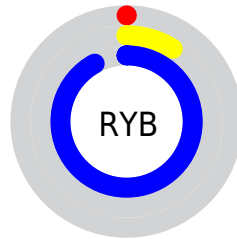
The CIELCh color **31, 120.021, 305.072** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark washed blue. A complement of this color would be **84, 84.298, 95.580**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **47, 100.998, 305.197**, and **21, 101.326, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **31, 120.252, 305.116**, and if you desaturate by 10%, it is **34, 111.139, 303.300**.

Distribution



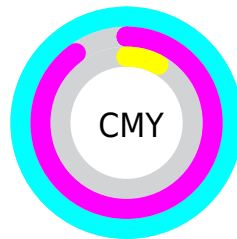
- Red (0%)
- Green (10%)
- Blue (92%)



- Red (0%)
- Yellow (9%)
- Blue (92%)



- Cyan (100%)
- Magenta (89%)
- Yellow (0%)
- Black (8%)





- Cyan (100%)
- Magenta (90%)
- Yellow (8%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 120.021, 305.072 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 31, 120.021, 305.072 by changing the saturation by 10% instead.


 31, 120.021,
305.072


 31, 120.021,
305.072


 100, 120.021,
305.072


 21, 120.021,
305.072


 51, 120.021,
305.072


 11, 120.021,
305.072


 61, 120.021,
305.072

 1, 120.021,
305.072

 71, 120.021,
305.072

 0, 120.021,
305.072

 81, 120.021,
305.072

 91, 120.021,
305.072

■ 31, 120.021,
305.072

■ 31, 120.021,
305.072

■ 31, 120.252,
305.116

■ 34, 111.139,
303.300

■ 39, 99.239,
300.938

■ 45, 85.938,
298.337

■ 51, 72.372,
295.772

■ 58, 59.083,
293.413

■ 65, 46.259,
291.329

■ 72, 33.933,
289.529

■ 79, 22.081,

287.993

■ 86, 10.666,
286.690

Harmonies

Complementary

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



31, 120.021, 305.072



84, 84.298, 95.580

Rectangle

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



31, 120.021, 305.072



31, 120.021, 355.072



31, 120.021, 125.072



31, 120.021, 175.072

Sweetspot

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



31, 120.023, 305.073



77, 36.806, 289.608



84, 52.659, 180.007



38, 25.317, 290.341



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



31, 120.023, 305.073



34, 128.602, 305.185



34, 119.917, 309.432



45, 6.274, 286.665



23, 98.282, 304.854



3, 33.152, 295.749

Inverse Universe

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



49, 93.262, 36.187



53, 99.951, 36.507



84, 98.483, 123.859



46, 4.942, 11.533



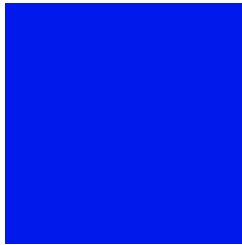
38, 76.426, 35.555



7, 28.140, 18.449

Previews

White Background



This preview shows how the CIE LCh color 31, 120.021, 305.072 looks on a white background.

Color Contrast Check

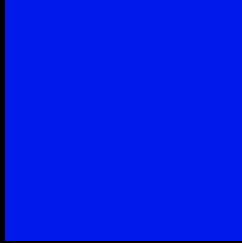
Large Text (above 18pt) WCAG AA ✓ Pass

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 31, 120.021, 305.072 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

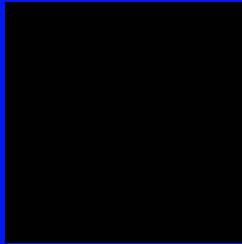
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 120.021, 305.072

Background



This preview shows how black text looks on a background with the CIELCh color 31, 120.021, 305.072.



This preview shows how white text looks on a background with the CIELCh color 31, 120.021, 305.072.

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


31, 120.005, 305.082

Protanopia

31, 49.237, 285.162

Deuteranopia

31, 33.848, 270.504



Tritanopia
31, 21.246, 203.527

Trichromacy



Original Color
31, 120.005, 305.082

Protanomaly
29, 78.549, 298.192

Deuteranomaly
28, 68.637, 295.587

Tritanomaly
27, 50.571, 288.463

Monochromacy



Original Color
31, 120.005, 305.082

Achromatopsia
17, 0.003, 296.813

Achromatomaly
19, 51.316, 298.753

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 120.021, 305.072 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(1, 25, 234)` looks like.

```
.text, #text, p{  
    color:rgb(1, 25, 234)  
}
```

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(1, 25, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 25, 234) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 120.021, 305.072 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(1, 25, 234) }
```

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

```
.border{ border-color:rgb(1, 25, 234) }
```

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

Here you see how a box with a 4 pixel rgb(1, 25, 234) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 25, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 25, 234);  
box-shadow:4px 4px 4px 4px rgb(1, 25, 234)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 120.021, 305.072 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 25, 234) }
```

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

```
.background{ background-color: rgb(1, 25,  
234) }
```

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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