

Converting Colors

CIELCh(31, 119.927, 305.539)

Have a look what the booklet for
CIELCh(31, 119.927, 305.539)
contains.

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Color

CIELCh(31, 120.028, 305.567)

Conversions

Conversions Part 1

Format	Color
Hex	1716E9
RGB	23, 22, 233
RGB Percent	9%, 9%, 91%
CMY	0.9085, 0.9134, 0.0859
CMYK	0.90, 0.91, 0.00, 0.09
HSL	240°, 83%, 50%
HSV	240°, 91%, 91%
XYZ	15.3693, 6.6515, 77.6286
YIQ	46.3530, -67.1350, 65.8330

Conversions

Conversions Part 2

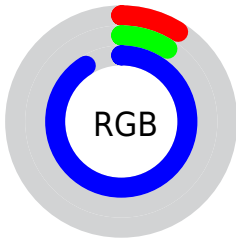
Format	Color
RYB	23, 22, 233
Decimal	1513193
CIELab	31.00, 69.81, -97.64
CIElCh	31, 120.028, 305.567
Yxy	6.6515, 0.1542, 0.0667
Android (android.graphics.Color)	4279703273 (0xFF1716E9)
YUV	46.3530, 92.0170, -20.4806
Hunter-Lab	25.7905, 61.2400, -160.4077

Details

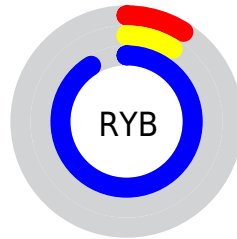
The CIELCh color **31, 120.028, 305.567** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark washed blue. A complement of this color would be **90, 88.514, 103.350**, and the grayscale version is **19, 0.003, 296.813**.

A 20% lighter version of the original color is **48, 101.397, 305.798**, and **20, 100.899, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **29, 124.995, 306.300**, and if you desaturate by 10%, it is **35, 110.300, 304.115**.

Distribution



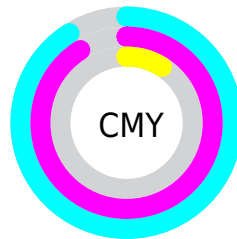
- Red (9%)
- Green (9%)
- Blue (91%)



- Red (9%)
- Yellow (9%)
- Blue (91%)



- Cyan (90%)
- Magenta (91%)
- Yellow (0%)
- Black (9%)





- Cyan (91%)
- Magenta (91%)
- Yellow (9%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 120.028, 305.567 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, 120.028, 305.567 by changing the saturation by 10% instead.


 31, 120.028,
305.567


 31, 120.028,
305.567


 100, 120.028,
305.567


 21, 120.028,
305.567


 51, 120.028,
305.567


 11, 120.028,
305.567


 61, 120.028,
305.567

 1, 120.028,
305.567

 71, 120.028,
305.567

 0, 120.028,
305.567

 81, 120.028,
305.567

 91, 120.028,
305.567

■ 31, 120.028,
305.567

■ 31, 120.028,
305.567

■ 29, 124.995,
306.300

■ 35, 110.300,
304.115

■ 40, 97.098,
302.117

■ 47, 82.436,
299.921

■ 54, 67.573,
297.789

■ 61, 53.072,
295.857

■ 69, 39.121,
294.171

■ 77, 25.751,
292.727

■ 84, 12.938,

291.504

■ 92, 0.640, 290.569

Harmonies

Complementary

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



31, 120.028, 305.567



90, 88.514, 103.350

Rectangle

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



31, 120.028, 305.567



31, 120.028, 355.567



31, 120.028, 125.567



31, 120.028, 175.567

Sweetspot

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



31, 120.030, 305.568



78, 36.952, 293.655



84, 46.215, 196.423



38, 25.083, 294.177



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, 120.030, 305.568



32, 133.790, 306.299



40, 112.348, 312.313



45, 7.007, 291.386



21, 103.444, 306.305



2, 35.746, 297.891

Inverse Universe

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



56, 105.546, 328.390



60, 115.025, 328.472



83, 98.631, 127.232



46, 8.424, 325.100



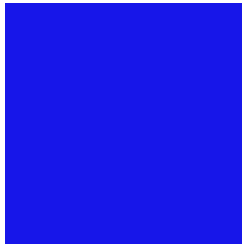
43, 88.953, 328.467



9, 38.117, 328.433

Previews

White Background



This preview shows how the CIE LCh color 31, 120.028, 305.567 looks on a white background.

Color Contrast Check

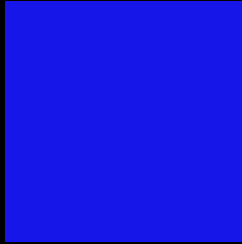
Large Text (above 18pt) WCAG AA ✓ Pass

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, 120.028, 305.567 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, 120.028, 305.567

Background



This preview shows how black text looks on a background with the CIELCh color 31, 120.028, 305.567.



This preview shows how white text looks on a background with the CIELCh color 31, 120.028, 305.567.

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, 120.028, 305.567

Protanopia

31, 49.304, 285.461

Deuteranopia

31, 33.848, 270.504



Tritanopia
31, 21.246, 203.527

Trichromacy



Original Color
31, 120.028, 305.567

Protanomaly
29, 78.565, 298.609

Deuteranomaly
28, 68.667, 296.119

Tritanomaly
27, 51.173, 289.603

Monochromacy



Original Color
31, 120.028, 305.567

Achromatopsia
19, 0.004, 296.813

Achromatomaly
20, 51.458, 300.423

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 120.028, 305.567 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(23, 22, 233)` looks like.

```
.text, #text, p{  
    color:rgb(23, 22, 233)  
}
```

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(23, 22, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 22, 233) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 120.028, 305.567 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(23, 22, 233) }
```

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

```
.border{ border-color:rgb(23, 22, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(23, 22, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 22, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 22, 233);  
box-shadow:4px 4px 4px 4px rgb(23, 22,  
233) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 120.028, 305.567 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 22, 233) }
```

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

```
.background{ background-color: rgb(23, 22,  
233) }
```

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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