

Converting Colors

CIELCh(31, 121.215, 305.429)

Have a look what the booklet for
CIELCh(31, 121.215, 305.429)
contains.

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Color

CIELCh(31, 121.155, 305.416)

Conversions

Conversions Part 1

Format	Color
Hex	0C16EB
RGB	12, 22, 235
RGB Percent	5%, 9%, 92%
CMY	0.9524, 0.9137, 0.0784
CMYK	0.95, 0.91, 0.00, 0.08
HSL	237°, 90%, 48%
HSV	237°, 95%, 92%
XYZ	15.4364, 6.6515, 79.0740
YIQ	43.2920, -74.3330, 64.1230

Conversions

Conversions Part 2

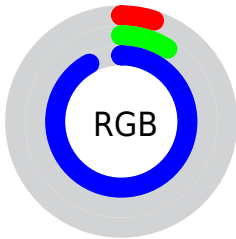
Format	Color
R_{YB}	12, 22, 235
Decimal	792299
CIE _{Lab}	31.00, 70.21, -98.74
CIE _{LCh}	31, 121.155, 305.416
Yxy	6.6515, 0.1526, 0.0658
Android (android.graphics.Color)	4278982379 (0xFF0C16EB)
YUV	43.2920, 94.5120, -27.4431
Hunter-Lab	25.7905, 61.7041, -163.7306

Details

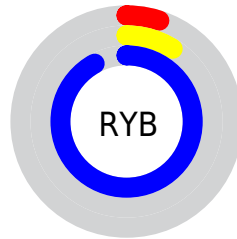
The CIELCh color **31, 121.155, 305.416** is a dark color, and the websafe version is hex **0033FF**. The color can be described as dark washed blue. A complement of this color would be **88, 87.308, 100.136**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **48, 101.434, 305.681**, and **21, 101.753, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **30, 124.008, 305.893**, and if you desaturate by 10%, it is **34, 112.038, 303.846**.

Distribution



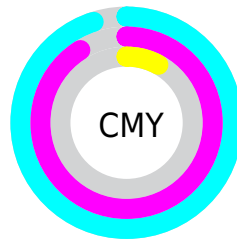
- Red (5%)
- Green (9%)
- Blue (92%)



- Red (5%)
- Yellow (9%)
- Blue (92%)



- Cyan (95%)
- Magenta (91%)
- Yellow (0%)
- Black (8%)





- Cyan (95%)
- Magenta (91%)
- Yellow (8%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 121.155, 305.416 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, 121.155, 305.416 by changing the saturation by 10% instead.


 31, 121.155,
305.416


 31, 121.155,
305.416


 100, 121.155,
305.416


 21, 121.155,
305.416


 51, 121.155,
305.416


 11, 121.155,
305.416


 61, 121.155,
305.416

 1, 121.155,
305.416

 71, 121.155,
305.416

 0, 121.155,
305.416

 81, 121.155,
305.416

 91, 121.155,
305.416

■ 31, 121.155,
305.416

■ 31, 121.155,
305.416

■ 30, 124.008,
305.893

■ 34, 112.038,
303.846

■ 39, 99.457,
301.702

■ 46, 85.325,
299.325

■ 53, 70.911,
296.993

■ 60, 56.809,
294.862

■ 67, 43.222,
292.991

■ 75, 30.187,
291.384

■ 82, 17.679,

290.017

■ 89, 5.661, 288.867

Harmonies

Complementary

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



31, 121.155, 305.416



88, 87.308, 100.136

Rectangle

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



31, 121.155, 305.416



31, 121.155, 355.416



31, 121.155, 125.416



31, 121.155, 175.416

Sweetspot

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



31, 121.157, 305.417



78, 36.603, 291.884



84, 48.747, 189.246



38, 25.497, 292.585



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, 121.157, 305.417



33, 132.088, 305.930



37, 116.463, 310.957



45, 6.691, 289.372



22, 101.447, 305.742



3, 34.633, 296.937

Inverse Universe

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



49, 93.699, 37.270



53, 102.889, 38.802



84, 99.430, 125.930



46, 4.907, 16.355



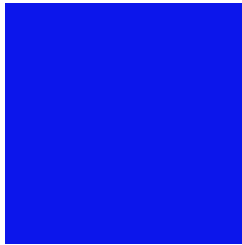
38, 78.936, 38.200



7, 28.350, 20.918

Previews

White Background



This preview shows how the CIE LCh color 31, 121.155, 305.416 looks on a white background.

Color Contrast Check

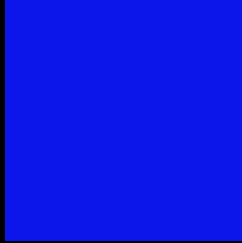
Large Text (above 18pt) WCAG AA ✓ Pass

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, 121.155, 305.416 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, 121.155, 305.416

Background



This preview shows how black text looks on a background with the CIELCh color 31, 121.155, 305.416.



This preview shows how white text looks on a background with the CIELCh color 31, 121.155, 305.416.

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, 121.155, 305.416

Protanopia

31, 49.889, 285.784

Deuteranopia

31, 33.848, 270.504



Tritanopia
31, 21.246, 203.527

Trichromacy



Original Color
31, 121.155, 305.416

Protanomaly
29, 79.710, 298.677

Deuteranomaly
28, 69.278, 296.096

Tritanomaly
27, 51.812, 289.592

Monochromacy



Original Color
31, 121.155, 305.416

Achromatopsia
18, 0.003, 296.813

Achromatomaly
19, 52.498, 300.222

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 121.155, 305.416 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, 22, 235)` looks like.

```
.text, #text, p{  
    color:rgb(12, 22, 235)  
}
```

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, 22, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 22, 235) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 121.155, 305.416 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, 22, 235) }
```

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

```
.border{ border-color:rgb(12, 22, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 22, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 22, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 22, 235);  
box-shadow:4px 4px 4px 4px rgb(12, 22,  
235) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 121.155, 305.416 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 22, 235) }
```

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

```
.background{ background-color: rgb(12, 22,  
235) }
```

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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