

Converting Colors

CIELCh(31, 105.179, 302.915)

Have a look what the booklet for
CIELCh(31, 105.179, 302.915)
contains.

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Color

CIELCh(31, 105.258, 302.912)

Conversions

Conversions Part 1

Format	Color
Hex	002AD9
RGB	0, 42, 217
RGB Percent	0%, 16%, 85%
CMY	1.0000, 0.8356, 0.1494
CMYK	1.00, 0.81, 0.00, 0.15
HSL	228°, 100%, 43%
HSV	228°, 100%, 85%
XYZ	13.3302, 6.6515, 66.1613
YIQ	49.3920, -81.2070, 45.5210

Conversions

Conversions Part 2

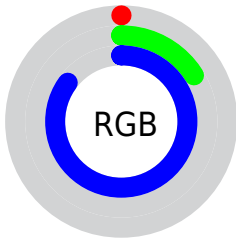
Format	Color
RYB	0, 35, 217
Decimal	10969
CIELab	31.00, 57.19, -88.36
CIELCh	31, 105.258, 302.912
Yxy	6.6515, 0.1547, 0.0772
Android (android.graphics.Color)	4278201049 (0xFF002AD9)
YUV	49.3920, 82.6307, -43.3168
Hunter-Lab	25.7905, 47.1269, -134.0455

Details

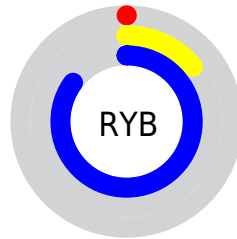
The CIELCh color **31, 105.258, 302.912** is a dark color, and the websafe version is hex **3300CC**. The color can be described as dark washed blue. A complement of this color would be **73, 75.788, 88.281**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **49, 94.354, 302.617**, and **18, 94.441, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **31, 105.253, 302.921**, and if you desaturate by 10%, it is **35, 95.326, 300.378**.

Distribution



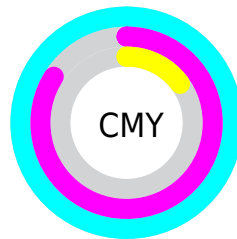
- Red (0%)
- Green (16%)
- Blue (85%)



- Red (0%)
- Yellow (14%)
- Blue (85%)



- Cyan (100%)
- Magenta (81%)
- Yellow (0%)
- Black (15%)





- Cyan (100%)
- Magenta (84%)
- Yellow (15%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 105.258, 302.912 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, 105.258, 302.912 by changing the saturation by 10% instead.


 31, 105.258,
302.912


 31, 105.258,
302.912


 100, 105.258,
302.912


 21, 105.258,
302.912


 51, 105.258,
302.912


 11, 105.258,
302.912


 61, 105.258,
302.912

 1, 105.258,
302.912

 71, 105.258,
302.912

 0, 105.258,
302.912

 81, 105.258,
302.912

 91, 105.258,
302.912

■ 31, 105.258,
302.912

■ 31, 105.258,
302.912

■ 31, 105.253,
302.921

■ 35, 95.326,
300.378

■ 39, 84.124,
297.458

■ 45, 72.557,
294.490

■ 50, 61.138,
291.685

■ 56, 50.064,
289.156

■ 62, 39.377,
286.942

■ 68, 29.058,
285.035

■ 74, 19.076,

283.405

■ 81, 9.401, 282.018

Harmonies

Complementary

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



31, 105.258, 302.912



73, 75.788, 88.281

Rectangle

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



31, 105.258, 302.912



31, 105.258, 352.912



31, 105.258, 122.912



31, 105.258, 172.912

Sweetspot

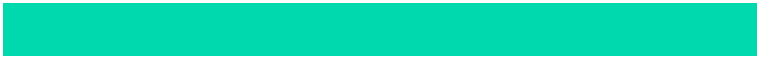
The Sweet Spot groups the original color and five complimentary colors.



31, 105.253, 302.921



79, 33.149, 285.084



78, 55.171, 170.632



39, 22.770, 285.863



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, 105.253, 302.921



37, 119.820, 303.143



30, 115.069, 308.231



43, 5.380, 281.947



24, 87.938, 302.538



4, 25.683, 290.318

Inverse Universe

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



46, 83.077, 30.577



53, 94.338, 31.109



80, 90.547, 120.031



43, 4.784, 4.580



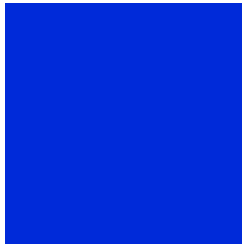
36, 69.736, 29.680



5, 23.739, 11.915

Previews

White Background



This preview shows how the CIE LCh color 31, 105.258, 302.912 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, 105.258, 302.912 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

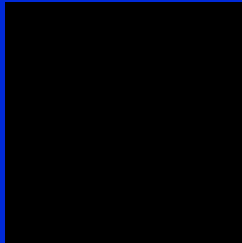
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 105.258, 302.912

Background



This preview shows how black text looks on a background with the CIELCh color 31, 105.258, 302.912.



This preview shows how white text looks on a background with the CIELCh color 31, 105.258, 302.912.

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, 105.258, 302.912

Protanopia

31, 49.889, 285.784

Deuteranopia

31, 34.379, 271.208



Tritanopia
31, 21.246, 203.527

Trichromacy



Original Color
31, 105.258, 302.912

Protanomaly
30, 71.197, 295.647

Deuteranomaly
30, 61.058, 292.202

Tritanomaly
29, 43.038, 282.346

Monochromacy



Original Color
31, 105.258, 302.912

Achromatopsia
20, 0.004, 296.813

Achromatomaly
21, 42.787, 294.023

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 105.258, 302.912 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, 42, 217)` looks like.

```
.text, #text, p{  
    color:rgb(0, 42, 217)  
}
```

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, 42, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 42, 217) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 105.258, 302.912 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, 42, 217) }
```

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

```
.border{ border-color:rgb(0, 42, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 42, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 42, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 42, 217);  
box-shadow:4px 4px 4px 4px rgb(0, 42, 217)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 105.258, 302.912 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 42, 217) }
```

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

```
.background{ background-color: rgb(0, 42,  
217) }
```

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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