

Converting Colors

CIELCh(31, 123.668, 307.300)

Have a look what the booklet for
CIELCh(31, 123.668, 307.300)
contains.

CIELCh(31, 123.410, 307.311)	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, 123.410, 307.311)

Conversions

Conversions Part 1

Format	Color
Hex	3300EA
RGB	51, 0, 234
RGB Percent	20%, 0%, 92%
CMY	0.7996, 0.9997, 0.0822
CMYK	0.78, 1.00, 0.00, 0.08
HSL	253°, 100%, 46%
HSV	253°, 100%, 92%
XYZ	16.2294, 6.6515, 78.3083
YIQ	41.9250, -44.7180, 83.5860

Conversions

Conversions Part 2

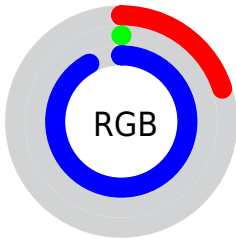
Format	Color
RYB	51, 0, 234
Decimal	3342570
CIELab	31.00, 74.80, -98.16
CIELCh	31, 123.410, 307.311
Yxy	6.6515, 0.1604, 0.0657
Android (android.graphics.Color)	4281532650 (0xFF3300EA)
YUV	41.9250, 94.6930, 7.9588
Hunter-Lab	25.7905, 67.1924, -161.9703

Details

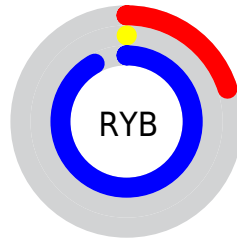
The CIELCh color **31, 123.410, 307.311** is a dark color, and the websafe version is hex **3300FF**. The color can be described as dark washed blue. A complement of this color would be **86, 93.693, 115.865**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **48, 104.506, 308.200**, and **21, 101.326, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **31, 123.427, 307.313**, and if you desaturate by 10%, it is **34, 117.624, 307.229**.

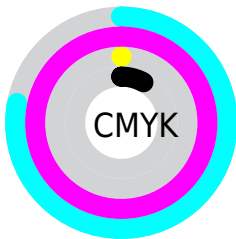
Distribution



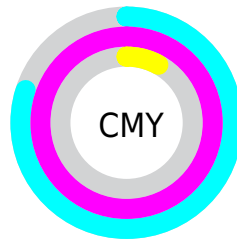
- Red (20%)
- Green (0%)
- Blue (92%)



- Red (20%)
- Yellow (0%)
- Blue (92%)



- Cyan (78%)
- Magenta (100%)
- Yellow (0%)
- Black (8%)





- Cyan (80%)
- Magenta (100%)
- Yellow (8%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 123.410, 307.311 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, 123.410, 307.311 by changing the saturation by 10% instead.


 31, 123.410,
307.311


 31, 123.410,
307.311


 100, 123.410,
307.311


 21, 123.410,
307.311


 51, 123.410,
307.311


 11, 123.410,
307.311


 61, 123.410,
307.311

 1, 123.410,
307.311

 71, 123.410,
307.311

 0, 123.410,
307.311

 81, 123.410,
307.311

 91, 123.410,
307.311

■ 31, 123.410,
307.311

■ 31, 123.410,
307.311

■ 31, 123.427,
307.313

■ 34, 117.624,
307.229

■ 38, 107.967,
306.648

■ 43, 95.395,
305.662

■ 50, 81.404,
304.488

■ 57, 66.999,
303.285

■ 64, 52.720,
302.144

■ 71, 38.814,
301.107

■ 78, 25.378,

300.187

■ 85, 12.435,
299.383

Harmonies

Complementary

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



31, 123.410, 307.311



86, 93.693, 115.865

Rectangle

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



31, 123.410, 307.311



31, 123.410, 357.311



31, 123.410, 127.311



31, 123.410, 177.311

Sweetspot

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



31, 123.412, 307.312



77, 41.662, 301.123



69, 41.688, 239.876



37, 28.648, 301.550



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, 123.412, 307.312



34, 131.759, 307.281



45, 111.965, 317.760



45, 7.092, 299.346



23, 101.664, 307.429



3, 36.304, 302.890

Inverse Universe

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



53, 91.298, 339.486



57, 97.344, 339.555



82, 108.769, 133.626



46, 7.267, 331.742



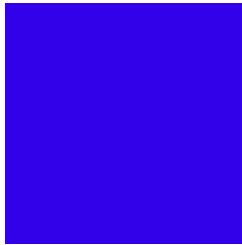
41, 75.527, 339.261



8, 33.114, 337.315

Previews

White Background



This preview shows how the CIELCh color 31, 123.410, 307.311 looks on a white background.

Color Contrast Check

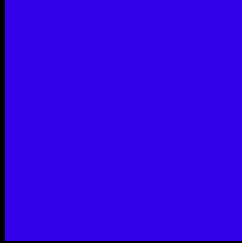
Large Text (above 18pt) WCAG AA ✓ Pass

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, 123.410, 307.311 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

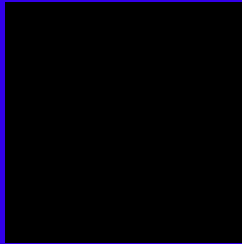
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 123.410, 307.311

Background



This preview shows how black text looks on a background with the CIELCh color 31, 123.410, 307.311.



This preview shows how white text looks on a background with the CIELCh color 31, 123.410, 307.311.

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, 123.410, 307.311

Protanopia

31, 49.755, 285.193

Deuteranopia

31, 33.866, 269.705



Tritanopia
31, 21.337, 205.266

Trichromacy



Original Color
31, 123.410, 307.311

Protanomaly
28, 84.441, 300.943

Deuteranomaly
27, 74.334, 299.056

Tritanomaly
25, 57.201, 294.714

Monochromacy



Original Color
31, 123.410, 307.311

Achromatopsia
17, 0.003, 296.813

Achromatomaly
18, 56.698, 305.703

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 123.410, 307.311 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(51, 0, 234)` looks like.

```
.text, #text, p{  
    color:rgb(51, 0, 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(51, 0, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 0, 234) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 123.410, 307.311 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(51, 0, 234) }
```

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

```
.border{ border-color:rgb(51, 0, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 0, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 0, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 0, 234);  
box-shadow:4px 4px 4px 4px rgb(51, 0, 234)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 123.410, 307.311 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 0, 234) }
```

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

```
.background{ background-color: rgb(51, 0,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor