

Converting Colors

CIELCh(31, 98.862, 302.432)

Have a look what the booklet for
CIELCh(31, 98.862, 302.432)
contains.

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Color

CIELCh(31, 98.420, 302.360)

Conversions

Conversions Part 1

Format	Color
Hex	152ED0
RGB	21, 46, 208
RGB Percent	8%, 18%, 82%
CMY	0.9189, 0.8200, 0.1847
CMYK	0.90, 0.78, 0.00, 0.18
HSL	232°, 82%, 45%
HSV	232°, 90%, 82%
XYZ	12.6473, 6.6515, 60.2215
YIQ	56.9930, -66.9020, 45.0820

Conversions

Conversions Part 2

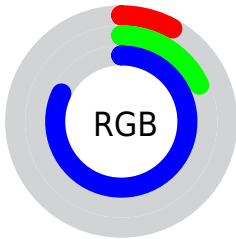
Format	Color
RYB	21, 43, 208
Decimal	1388240
CIELab	31.00, 52.68, -83.14
CIELCh	31, 98.420, 302.360
Yxy	6.6515, 0.1590, 0.0836
Android (android.graphics.Color)	4279578320 (0xFF152ED0)
YUV	56.9930, 74.4465, -31.5659
Hunter-Lab	25.7905, 42.4006, -120.3904

Details

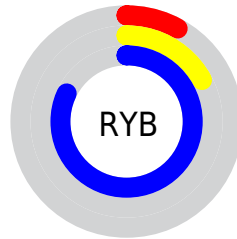
The CIELCh color **31, 98.420, 302.360** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **74, 73.785, 94.244**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **50, 92.558, 302.205**, and **17, 90.618, 306.187** is the 20% darker color. If you saturate the color by 10%, you get **28, 107.244, 304.401**, and if you desaturate by 10%, it is **35, 87.452, 299.803**.

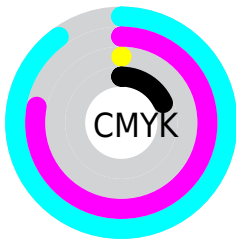
Distribution



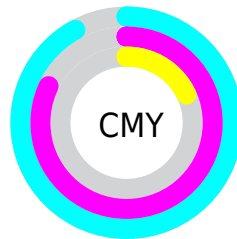
- Red (8%)
- Green (18%)
- Blue (82%)



- Red (8%)
- Yellow (17%)
- Blue (82%)



- Cyan (90%)
- Magenta (78%)
- Yellow (0%)
- Black (18%)





- Cyan (92%)
- Magenta (82%)
- Yellow (18%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 31, 98.420, 302.360 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, 98.420, 302.360 by changing the saturation by 10% instead.


 31, 98.420,
302.360


 31, 98.420,
302.360

 100, 98.420,
302.360


 21, 98.420,
302.360

 51, 98.420,
302.360


 11, 98.420,
302.360


 61, 98.420,
302.360

 1, 98.420, 302.360

 71, 98.420,
302.360

 0, 98.420, 302.360

 81, 98.420,
302.360

 91, 98.420,
302.360

■ 31, 98.420,
302.360

■ 31, 98.420,
302.360

■ 28, 107.244,
304.401

■ 35, 87.452,
299.803

■ 41, 75.612,
297.084

■ 46, 63.708,
294.451

■ 52, 52.104,
292.048

■ 58, 40.911,
289.932

■ 65, 30.138,
288.106

■ 71, 19.759,
286.544

■ 77, 9.742, 285.216

Harmonies

Complementary

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



31, 98.420, 302.360



74, 73.785, 94.244

Rectangle

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



31, 98.420, 302.360



31, 98.420, 352.360



31, 98.420, 122.360



31, 98.420, 172.360

Sweetspot

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



31, 98.421, 302.361



80, 31.804, 287.654



75, 48.528, 177.619



40, 21.563, 288.229



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, 98.421, 302.361



35, 126.054, 304.618



32, 105.108, 309.213



41, 5.520, 285.139



22, 90.721, 304.109



3, 23.175, 289.856

Inverse Universe

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



44, 77.390, 29.629



53, 98.102, 34.901



77, 85.960, 121.321



41, 4.522, 9.106



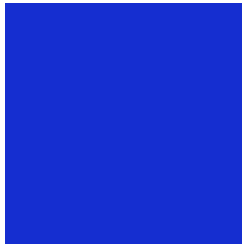
35, 70.806, 33.537



4, 20.097, 13.203

Previews

White Background



This preview shows how the CIE LCh color 31, 98.420, 302.360 looks on a white background.

Color Contrast Check

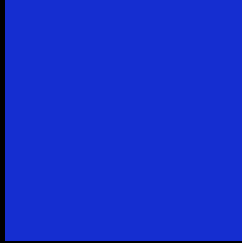
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIE LCh color 31, 98.420, 302.360 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

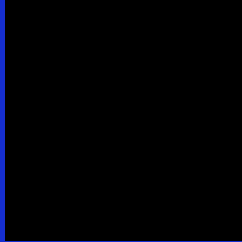
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 98.420, 302.360

Background



This preview shows how black text looks on a background with the CIELCh color 31, 98.420, 302.360.



This preview shows how white text looks on a background with the CIELCh color 31, 98.420, 302.360.

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, 98.420, 302.360

Protanopia

31, 49.304, 285.461

Deuteranopia

31, 33.848, 270.504



Tritanopia
31, 21.246, 203.527

Trichromacy



Original Color
31, 98.420, 302.360

Protanomaly
30, 68.165, 295.033

Deuteranomaly
30, 57.959, 291.329

Tritanomaly
29, 40.537, 280.978

Monochromacy



Original Color
31, 98.420, 302.360

Achromatopsia
24, 0.004, 296.813

Achromatomaly
24, 38.797, 293.944

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 98.420, 302.360 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(21, 46, 208)` looks like.

```
.text, #text, p{  
    color:rgb(21, 46, 208)  
}
```

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(21, 46, 208) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(21, 46, 208) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 98.420, 302.360 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(21, 46, 208) }
```

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

```
.border{ border-color:rgb(21, 46, 208) }
```

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

Here you see how a box with a 4 pixel `rgb(21, 46, 208)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(21, 46, 208); -webkit-box-  
shadow:4px 4px 4px 4px rgb(21, 46, 208);  
box-shadow:4px 4px 4px 4px rgb(21, 46,  
208) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 98.420, 302.360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(21, 46, 208) }
```

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

```
.background{ background-color: rgb(21, 46,  
208) }
```

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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