

Converting Colors

CIELCh(33, 101.633, 301.608)

Have a look what the booklet for
CIELCh(33, 101.633, 301.608)
contains.

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Color

CIELCh(33, 101.987, 301.660)

Conversions

Conversions Part 1

Format	Color
Hex	0133DC
RGB	1, 51, 220
RGB Percent	0%, 20%, 86%
CMY	0.9965, 0.8001, 0.1374
CMYK	1.00, 0.77, 0.00, 0.14
HSL	226°, 99%, 43%
HSV	226°, 100%, 86%
XYZ	14.1083, 7.5373, 68.4038
YIQ	55.3160, -84.0490, 41.9590

Conversions

Conversions Part 2

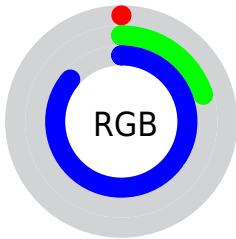
Format	Color
R _Y B	1, 42, 220
Decimal	78812
CIE Lab	33.00, 53.53, -86.81
CIE LCh	33, 101.987, 301.660
Yxy	7.5373, 0.1567, 0.0837
Android (android.graphics.Color)	4278268892 (0xFF0133DC)
YUV	55.3160, 81.1892, -47.6351
Hunter-Lab	27.4541, 43.6843, -128.5072

Details

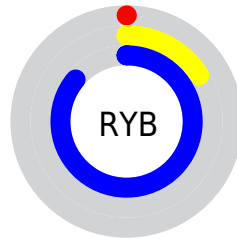
The CIELCh color **33, 101.987, 301.660** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **72, 75.386, 85.184**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 89.587, 301.133**, and **19, 93.966, 305.772** is the 20% darker color. If you saturate the color by 10%, you get **33, 102.376, 301.761**, and if you desaturate by 10%, it is **37, 91.738, 298.822**.

Distribution



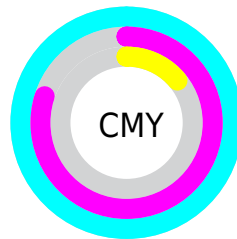
- Red (0%)
- Green (20%)
- Blue (86%)



- Red (0%)
- Yellow (16%)
- Blue (86%)



- Cyan (100%)
- Magenta (77%)
- Yellow (0%)
- Black (14%)





- Cyan (100%)
- Magenta (80%)
- Yellow (14%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 101.987, 301.660 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 33, 101.987, 301.660 by changing the saturation by 10% instead.


 33, 101.987,
301.660


 33, 101.987,
301.660


 100, 101.987,
301.660


 23, 101.987,
301.660


 53, 101.987,
301.660


 13, 101.987,
301.660


 63, 101.987,
301.660

 3, 101.987,
301.660

 73, 101.987,
301.660

 0, 101.987,
301.660

 83, 101.987,
301.660

 93, 101.987,
301.660

■ 33, 101.987,
301.660

■ 33, 101.987,
301.660

■ 33, 102.376,
301.761

■ 37, 91.738,
298.822

■ 42, 80.677,
295.697

■ 47, 69.497,
292.594

■ 52, 58.548,
289.698

■ 58, 47.944,
287.107

■ 64, 37.693,
284.846

■ 70, 27.766,
282.902

■ 76, 18.132,

281.240

■ 82, 8.765, 279.826

Harmonies

Complementary

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



33, 101.987, 301.660



72, 75.386, 85.184

Rectangle

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



33, 101.987, 301.660



33, 101.987, 351.660



33, 101.987, 121.660



33, 101.987, 171.660

Sweetspot

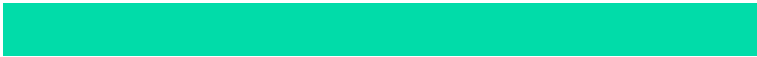
The Sweet Spot groups the original color and five complimentary colors.



33, 101.989, 301.661



80, 31.759, 283.020



78, 58.135, 167.433



40, 21.801, 283.818



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



33, 101.989, 301.661



38, 115.318, 301.990



30, 116.726, 307.825



43, 5.171, 279.805



25, 84.469, 301.306



4, 24.985, 289.319

Inverse Universe

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



46, 81.848, 27.721



54, 92.133, 28.434



81, 90.501, 118.344



43, 4.846, 1.924



36, 68.185, 26.941



5, 23.770, 10.385

Previews

White Background



This preview shows how the CIE LCh color 33, 101.987, 301.660 looks on a white background.

Color Contrast Check

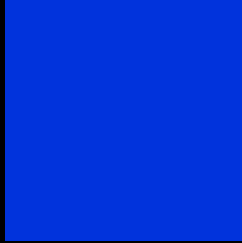
Large Text (above 18pt) WCAG AA ✓ Pass

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 33, 101.987, 301.660 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

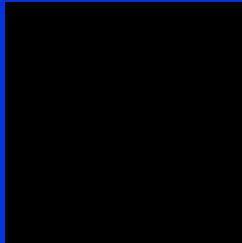
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 101.987, 301.660

Background



This preview shows how black text looks on a background with the CIELCh color 33, 101.987, 301.660.



This preview shows how white text looks on a background with the CIELCh color 33, 101.987, 301.660.

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

33, 101.987, 301.660

Protanopia

33, 51.879, 285.589

Deuteranopia

33, 35.461, 270.633

Trichromacy



Original Color
33, 101.987, 301.660

Protanomaly
32, 71.162, 294.554

Deuteranomaly
32, 60.499, 290.734

Monochromacy



Original Color
33, 101.987, 301.660

Achromatopsia
23, 0.004, 296.813

Achromatomaly
24, 40.170, 291.022

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 101.987, 301.660 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(1, 51, 220)` looks like.

```
.text, #text, p{  
    color:rgb(1, 51, 220)  
}
```

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(1, 51, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 51, 220) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 101.987, 301.660 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(1, 51, 220) }
```

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

```
.border{ border-color:rgb(1, 51, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 51, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 51, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 51, 220);  
box-shadow:4px 4px 4px 4px rgb(1, 51, 220)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 101.987, 301.660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 51, 220) }
```

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

```
.background{ background-color: rgb(1, 51,  
220) }
```

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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