

Converting Colors

CIELCh(33, 133.097, 306.619)

Have a look what the booklet for
CIELCh(33, 133.097, 306.619)
contains.

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Color

CIELCh(33, 133.063, 306.636)

Conversions

Conversions Part 1

Format	Color
Hex	2000FF
RGB	32, 0, 255
RGB Percent	13%, 0%, 100%
CMY	0.8762, 0.9989, 0.0000
CMYK	0.88, 1.00, 0.00, 0.00
HSL	247°, 100%, 50%
HSV	247°, 100%, 100%
XYZ	18.6620, 7.5373, 95.2204
YIQ	38.6380, -62.7830, 86.0890

Conversions

Conversions Part 2

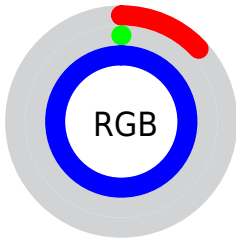
Format	Color
R _Y B	32, 0, 255
Decimal	2097407
CIE Lab	33.00, 79.40, -106.78
CIE LCh	33, 133.063, 306.636
Yxy	7.5373, 0.1537, 0.0621
Android (android.graphics.Color)	4280287487 (0xFF2000FF)
YUV	38.6380, 106.6665, -5.8215
Hunter-Lab	27.4541, 73.2911, -186.4207

Details

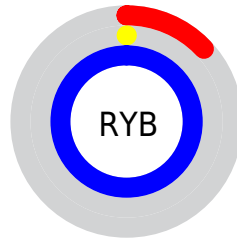
The CIELCh color **33, 133.063, 306.636** is a dark color, and the websafe version is hex **0000FF**. The color can be described as dark saturated blue. A complement of this color would be **95, 97.948, 110.453**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **48, 104.135, 307.725**, and **24, 109.772, 306.287** is the 20% darker color. If you saturate the color by 10%, you get **33, 133.050, 306.642**, and if you desaturate by 10%, it is **35, 127.187, 306.269**.

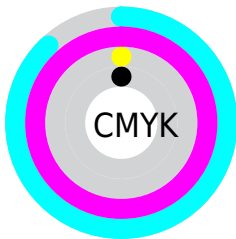
Distribution



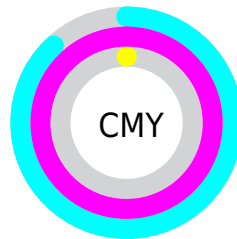
- Red (13%)
- Green (0%)
- Blue (100%)



- Red (13%)
- Yellow (0%)
- Blue (100%)



- Cyan (88%)
- Magenta (100%)
- Yellow (0%)
- Black (0%)





- Cyan (88%)
- Magenta (100%)
- Yellow (0%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 133.063, 306.636 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, 133.063, 306.636 by changing the saturation by 10% instead.


 33, 133.063,
306.636


 33, 133.063,
306.636


 100, 133.063,
306.636


 23, 133.063,
306.636


 53, 133.063,
306.636


 13, 133.063,
306.636


 63, 133.063,
306.636

 3, 133.063,
306.636

 73, 133.063,
306.636

 0, 133.063,
306.636

 83, 133.063,
306.636

 93, 133.063,
306.636

■ 33, 133.063,
306.636

■ 33, 133.063,
306.636

■ 33, 133.050,
306.642

■ 35, 127.187,
306.269

■ 40, 116.665,
305.304

■ 46, 102.770,
303.885

■ 53, 87.371,
302.285

■ 60, 71.659,
300.701

■ 68, 56.218,
299.237

■ 76, 41.281,
297.936

■ 84, 26.916,

296.804

■ 92, 13.121,
295.830

Harmonies

Complementary

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



33, 133.063, 306.636



95, 97.948, 110.453

Rectangle

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



33, 133.063, 306.636



33, 133.063, 356.636



33, 133.063, 126.636



33, 133.063, 176.636

Sweetspot

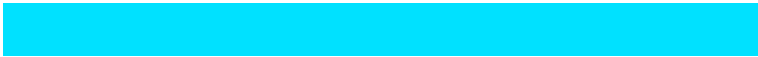
The Sweet Spot groups the original color and five complimentary colors.



33, 132.998, 306.638



76, 41.441, 297.949



82, 44.079, 218.052



37, 28.518, 298.478



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, 132.998, 306.638



33, 133.050, 306.642



45, 121.877, 314.667



49, 7.537, 295.795



24, 107.036, 306.718



4, 44.407, 304.138

Inverse Universe

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



59, 104.752, 333.937



59, 104.760, 333.943



89, 113.334, 131.662



50, 8.323, 328.514



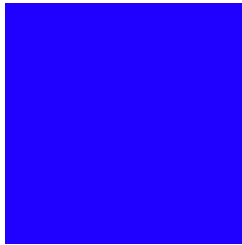
44, 84.519, 333.832



12, 39.334, 333.077

Previews

White Background



This preview shows how the CIELCh color 33, 133.063, 306.636 looks on a white background.

Color Contrast Check

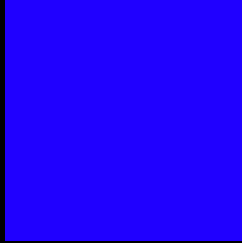
Large Text (above 18pt) WCAG AA ✓ Pass

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, 133.063, 306.636 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

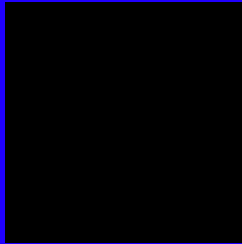
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 133.063, 306.636

Background



This preview shows how black text looks on a background with the CIELCh color 33, 133.063, 306.636.



This preview shows how white text looks on a background with the CIELCh color 33, 133.063, 306.636.

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, 133.023, 306.654

Protanopia

33, 51.813, 285.308

Deuteranopia

33, 35.468, 270.255



Tritanopia
33, 22.338, 203.093

Trichromacy



Original Color
33, 133.023, 306.654

Protanomaly
30, 89.729, 300.992

Deuteranomaly
29, 79.180, 298.968

Tritanomaly
27, 61.751, 294.709

Monochromacy



Original Color
33, 133.023, 306.654

Achromatopsia
16, 0.003, 296.813

Achromatomaly
17, 61.813, 304.480

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 133.063, 306.636 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(32, 0, 255)` looks like.

```
.text, #text, p{  
    color:rgb(32, 0, 255)  
}
```

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(32, 0, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 0, 255) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 133.063, 306.636 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(32, 0, 255) }
```

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

```
.border{ border-color:rgb(32, 0, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(32, 0, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 0, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 0, 255);  
box-shadow:4px 4px 4px 4px rgb(32, 0, 255)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 133.063, 306.636 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 0, 255) }
```

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

```
.background{ background-color: rgb(32, 0,  
255) }
```

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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