

Converting Colors

CIELCh(33, 96.994, 303.182)

Have a look what the booklet for
CIELCh(33, 96.994, 303.182)
contains.

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Color

CIELCh(33, 96.999, 303.234)

Conversions

Conversions Part 1

Format	Color
Hex	3131D2
RGB	49, 49, 210
RGB Percent	19%, 19%, 82%
CMY	0.8064, 0.8072, 0.1756
CMYK	0.77, 0.77, 0.00, 0.18
HSL	240°, 64%, 51%
HSV	240°, 77%, 82%
XYZ	14.0493, 7.5373, 61.8274
YIQ	67.3540, -51.6810, 50.0710

Conversions

Conversions Part 2

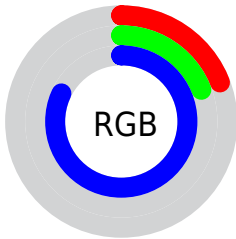
Format	Color
R_{YB}	49, 49, 210
Decimal	3224018
CIE _{Lab}	33.00, 53.16, -81.13
CIE _{LCh}	33, 96.999, 303.234
Yxy	7.5373, 0.1684, 0.0904
Android (android.graphics.Color)	4281414098 (0xFF3131D2)
YUV	67.3540, 70.3245, -16.0965
Hunter-Lab	27.4541, 43.3008, -114.3049

Details

The CIELCh color **33, 96.999, 303.234** is a dark color, and the websafe version is hex **3333CC**. The color can be described as dark muted blue. A complement of this color would be **82, 75.347, 103.616**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **52, 89.910, 303.213**, and **17, 91.500, 306.190** is the 20% darker color. If you saturate the color by 10%, you get **29, 107.611, 304.984**, and if you desaturate by 10%, it is **39, 84.071, 301.098**.

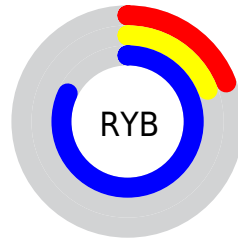
Distribution



 Red (19%)

 Green (19%)

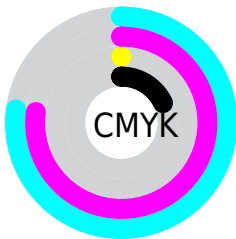
 Blue (82%)




 Red (19%)

 Yellow (19%)

 Blue (82%)

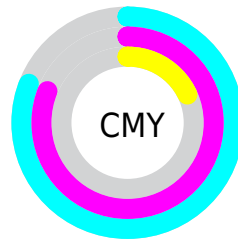


 Cyan (77%)

 Magenta (77%)

 Yellow (0%)

 Black (18%)



 Cyan (81%)


 Magenta (81%)


 Yellow (18%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 96.999, 303.234 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, 96.999, 303.234 by changing the saturation by 10% instead.


 33, 96.999,
303.234


 33, 96.999,
303.234

 100, 96.999,
303.234


 23, 96.999,
303.234

 53, 96.999,
303.234


 13, 96.999,
303.234


 63, 96.999,
303.234

 3, 96.999, 303.234

 73, 96.999,
303.234

 0, 96.999, 303.234

 83, 96.999,
303.234

 93, 96.999,
303.234

■ 33, 96.999,
303.234

■ 33, 96.999,
303.234

■ 29, 107.611,
304.984

■ 39, 84.071,
301.098

■ 26, 114.062,
306.031

■ 45, 70.401,
298.894

■ 26, 115.670,
306.290

■ 52, 56.830,
296.826

■ 59, 43.694,
294.987

■ 66, 31.085,
293.396

■ 73, 19.002,
292.041

■ 80, 7.414, 290.896

■ 87, 3.718, 109.895

■ 94, 14.427,
109.080

Harmonies

Complementary

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



33, 96.999, 303.234



82, 75.347, 103.616

Rectangle

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



33, 96.999, 303.234



33, 96.999, 353.234



33, 96.999, 123.234



33, 96.999, 173.234

Sweetspot

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



33, 97.000, 303.235



81, 31.209, 292.917



77, 40.641, 196.564



40, 21.768, 293.441



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, 97.000, 303.235



34, 129.897, 305.745



41, 92.877, 312.557



40, 6.372, 291.197



19, 98.022, 306.291



1, 25.556, 293.246

Inverse Universe

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



53, 91.359, 327.980



61, 113.929, 328.233



77, 82.737, 126.389



41, 7.687, 324.967



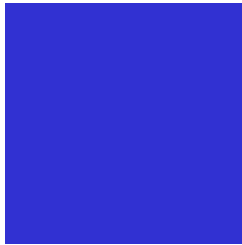
40, 84.580, 328.280



6, 31.084, 327.863

Previews

White Background



This preview shows how the CIE LCh color 33, 96.999, 303.234 looks on a white background.

Color Contrast Check

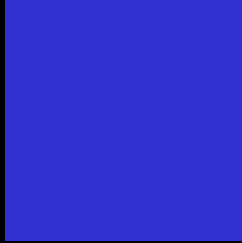
Large Text (above 18pt) WCAG AA ✓ Pass

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 33, 96.999, 303.234 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

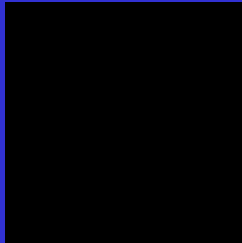
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 96.999, 303.234

Background



This preview shows how black text looks on a background with the CIELCh color 33, 96.999, 303.234.



This preview shows how white text looks on a background with the CIELCh color 33, 96.999, 303.234.

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, 96.999, 303.234

Protanopia

33, 52.527, 286.170

Deuteranopia

33, 35.461, 270.633



Tritanopia
33, 22.063, 204.902

Trichromacy



Original Color
33, 96.999, 303.234

Protanomaly
32, 69.402, 295.029

Deuteranomaly
32, 58.009, 290.837

Tritanomaly
31, 39.598, 279.769

Monochromacy



Original Color
33, 96.999, 303.234

Achromatopsia
29, 0.005, 296.813

Achromatomaly
29, 37.962, 296.864

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 96.999, 303.234 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(49, 49, 210)` looks like.

```
.text, #text, p{  
    color:rgb(49, 49, 210)  
}
```

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(49, 49, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 49, 210) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 96.999, 303.234 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(49, 49, 210) }
```

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

```
.border{ border-color:rgb(49, 49, 210) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 49, 210)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 49, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 49, 210);  
box-shadow:4px 4px 4px 4px rgb(49, 49,  
210) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 96.999, 303.234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 49, 210) }
```

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

```
.background{ background-color: rgb(49, 49,  
210) }
```

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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