

Converting Colors

CIELCh(33, 90.469, 300.681)

Have a look what the booklet for
CIELCh(33, 90.469, 300.681)
contains.

CIELCh(33, 90.399, 300.735)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(33, 90.399, 300.735)

Conversions

Conversions Part 1

Format	Color
Hex	2138CC
RGB	33, 56, 204
RGB Percent	13%, 22%, 80%
CMY	0.8722, 0.7796, 0.1990
CMYK	0.84, 0.72, 0.00, 0.20
HSL	232°, 72%, 46%
HSV	232°, 84%, 80%
XYZ	12.9685, 7.5373, 58.0626
YIQ	65.9950, -61.2160, 41.1520

Conversions

Conversions Part 2

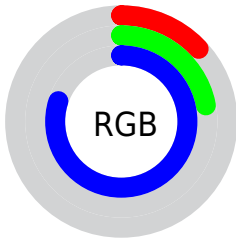
Format	Color
R_{YB}	33, 53, 204
Decimal	2177228
CIE _{Lab}	33.00, 46.20, -77.70
CIE _{LCh}	33, 90.399, 300.735
Yxy	7.5373, 0.1651, 0.0959
Android (android.graphics.Color)	4280367308 (0xFF2138CC)
YUV	65.9950, 68.0365, -28.9366
Hunter-Lab	27.4541, 36.2733, -106.1745




Details

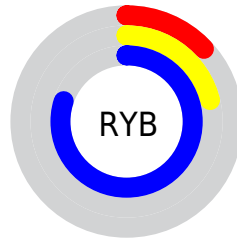
The CIELCh color **33, 90.399, 300.735** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark muted blue. A complement of this color would be **73, 70.490, 94.671**, and the grayscale version is **28, 0.004, 296.813**.




A 20% lighter version of the original color is **52, 86.502, 300.517**, and **18, 84.831, 304.891** is the 20% darker color. If you saturate the color by 10%, you get **29, 100.575, 303.167**, and if you desaturate by 10%, it is **38, 78.956, 298.034**.

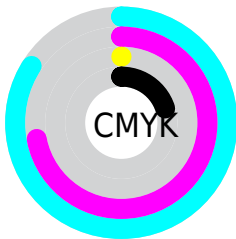
Distribution







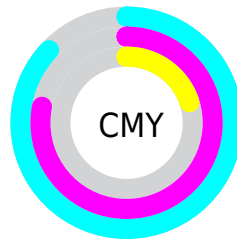
-  Red (13%)
-  Green (22%)
-  Blue (80%)






-  Red (13%)
-  Yellow (21%)
-  Blue (80%)



-  Cyan (84%)
-  Magenta (72%)
-  Yellow (0%)
-  Black (20%)





-  Cyan (87%)
-  Magenta (78%)
-  Yellow (20%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 90.399, 300.735 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, 90.399, 300.735 by changing the saturation by 10% instead.


 33, 90.399,
300.735


 33, 90.399,
300.735

 100, 90.399,
300.735


 23, 90.399,
300.735

 53, 90.399,
300.735


 13, 90.399,
300.735


 63, 90.399,
300.735

 3, 90.399, 300.735

 73, 90.399,
300.735

 0, 90.399, 300.735

 83, 90.399,
300.735

 93, 90.399,
300.735

■ 33, 90.399,
300.735

■ 33, 90.399,
300.735

■ 29, 100.575,
303.167

■ 38, 78.956,
298.034

■ 27, 105.527,
304.316

■ 43, 67.220,
295.338

■ 49, 55.684,
292.831

■ 55, 44.528,
290.597

■ 61, 33.787,
288.657

■ 67, 23.442,
286.992

■ 74, 13.463,
285.574

■ 80, 3.820, 284.383

Harmonies

Complementary

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



33, 90.399, 300.735



73, 70.490, 94.671

Rectangle

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



33, 90.399, 300.735



33, 90.399, 350.735



33, 90.399, 120.735



33, 90.399, 170.735

Sweetspot

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



33, 90.400, 300.736



82, 29.248, 287.191



74, 46.607, 178.503



41, 20.080, 287.765



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, 90.400, 300.736



35, 125.793, 304.559



33, 99.095, 309.180



40, 5.392, 284.990



21, 89.421, 304.018



2, 21.289, 288.848

Inverse Universe

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



45, 72.064, 26.508



53, 97.923, 34.738



76, 82.027, 120.899



40, 4.434, 8.881



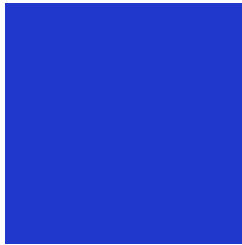
34, 69.837, 33.298



4, 18.064, 12.659

Previews

White Background



This preview shows how the CIE LCh color 33, 90.399, 300.735 looks on a white background.

Color Contrast Check

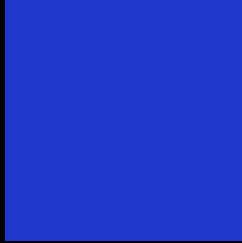
Large Text (above 18pt) WCAG AA ✓ Pass

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, 90.399, 300.735 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

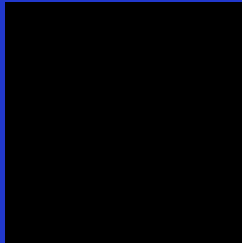
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 90.399, 300.735

Background



This preview shows how black text looks on a background with the CIELCh color 33, 90.399, 300.735.



This preview shows how white text looks on a background with the CIELCh color 33, 90.399, 300.735.

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, 90.377, 300.785

Protanopia

33, 52.527, 286.170

Deuteranopia

33, 36.517, 272.314



Tritanopia
33, 22.157, 203.162

Trichromacy



Original Color
33, 90.377, 300.785

Protanomaly
32, 66.296, 293.336

Deuteranomaly
32, 56.147, 289.244

Tritanomaly
31, 37.408, 276.221

Monochromacy



Original Color
33, 90.377, 300.785

Achromatopsia
28, 0.004, 296.813

Achromatomaly
28, 34.849, 292.505

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 90.399, 300.735 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(33, 56, 204)` looks like.

```
.text, #text, p{  
    color:rgb(33, 56, 204)  
}
```

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(33, 56, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 56, 204) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 90.399, 300.735 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(33, 56, 204) }
```

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

```
.border{ border-color:rgb(33, 56, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 56, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 56, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 56, 204);  
box-shadow:4px 4px 4px 4px rgb(33, 56,  
204) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 90.399, 300.735 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 56, 204) }
```

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

```
.background{ background-color: rgb(33, 56,  
204) }
```

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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