

Converting Colors

CIELCh(33, 78.005, 298.478)

Have a look what the booklet for
CIELCh(33, 78.005, 298.478)
contains.

CIELCh(33, 78.422, 298.601)	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, 78.422, 298.601)

Conversions

Conversions Part 1

Format	Color
Hex	253EBD
RGB	37, 62, 189
RGB Percent	15%, 24%, 74%
CMY	0.8538, 0.7564, 0.2582
CMYK	0.80, 0.67, 0.00, 0.26
HSL	230°, 67%, 44%
HSV	230°, 80%, 74%
XYZ	11.7033, 7.5373, 49.0678
YIQ	69.0030, -55.6670, 34.1970

Conversions

Conversions Part 2

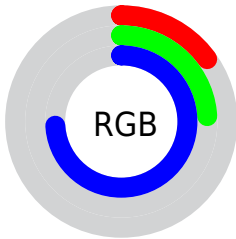
Format	Color
R_{YB}	37, 58, 189
Decimal	2440893
CIE _{Lab}	33.00, 37.54, -68.85
CIE _{LCh}	33, 78.422, 298.601
Yxy	7.5373, 0.1713, 0.1103
Android (android.graphics.Color)	4280630973 (0xFF253EBD)
YUV	69.0030, 59.1585, -28.0666
Hunter-Lab	27.4541, 28.0473, -86.7492




Details

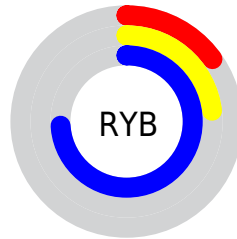
The CIELCh color **33, 78.422, 298.601** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **68, 63.594, 93.302**, and the grayscale version is **29, 0.005, 296.813**.




A 20% lighter version of the original color is **53, 78.013, 298.533**, and **17, 74.719, 303.311** is the 20% darker color. If you saturate the color by 10%, you get **29, 88.599, 301.332**, and if you desaturate by 10%, it is **38, 67.732, 295.781**.

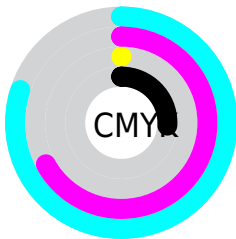
Distribution







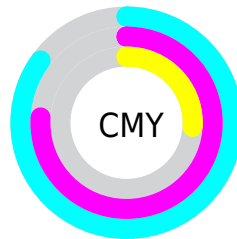
-  Red (15%)
-  Green (24%)
-  Blue (74%)






-  Red (15%)
-  Yellow (23%)
-  Blue (74%)



-  Cyan (80%)
-  Magenta (67%)
-  Yellow (0%)
-  Black (26%)





-  Cyan (85%)
-  Magenta (76%)
-  Yellow (26%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 78.422, 298.601 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, 78.422, 298.601 by changing the saturation by 10% instead.


 33, 78.422,
298.601


 33, 78.422,
298.601

 100, 78.422,
298.601


 23, 78.422,
298.601

 53, 78.422,
298.601


 13, 78.422,
298.601


 63, 78.422,
298.601

 3, 78.422, 298.601

 73, 78.422,
298.601

 0, 78.422, 298.601

 83, 78.422,
298.601

 93, 78.422,
298.601

■ 33, 78.422,
298.601

■ 33, 78.422,
298.601

■ 29, 88.599,
301.332

■ 38, 67.732,
295.781

■ 26, 97.096,
303.565

■ 43, 57.101,
293.087

■ 48, 46.771,
290.645

■ 54, 36.806,
288.501

■ 60, 27.198,
286.649

■ 65, 17.923,
285.064

■ 71, 8.951, 283.714

■ 77, 0.260, 283.045

Harmonies

Complementary

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



33, 78.422, 298.601



68, 63.594, 93.302

Rectangle

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



33, 78.422, 298.601



33, 78.422, 348.601



33, 78.422, 118.601



33, 78.422, 168.601

Sweetspot

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



33, 78.423, 298.602



80, 26.310, 285.682



69, 43.733, 177.399



40, 18.175, 286.255



98, 0.011, 296.813



51, 0.007, 296.813

Same Dimension

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



33, 78.423, 298.602



36, 115.414, 303.086



32, 90.158, 308.718



37, 4.912, 283.598



21, 84.139, 303.254



2, 15.408, 285.591

Inverse Universe

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



42, 64.395, 22.658



52, 90.642, 31.066



71, 74.880, 119.998



37, 4.185, 6.841



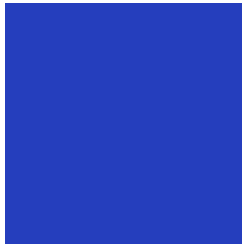
33, 66.167, 31.378



3, 12.443, 10.070

Previews

White Background



This preview shows how the CIE LCh color 33, 78.422, 298.601 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, 78.422, 298.601 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

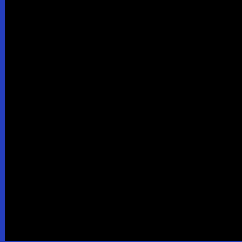
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 78.422, 298.601

Background



This preview shows how black text looks on a background with the CIELCh color 33, 78.422, 298.601.



This preview shows how white text looks on a background with the CIELCh color 33, 78.422, 298.601.

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, 78.422, 298.601

Protanopia

33, 51.879, 285.589

Deuteranopia

33, 36.517, 272.314



Tritanopia
33, 22.063, 204.902

Trichromacy



Original Color
33, 78.422, 298.601

Protanomaly
33, 62.044, 291.735

Deuteranomaly
32, 51.298, 286.718

Tritanomaly
32, 33.519, 271.340

Monochromacy



Original Color
33, 78.422, 298.601

Achromatopsia
29, 0.005, 296.813

Achromatomaly
29, 30.192, 290.127

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 78.422, 298.601 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(37, 62, 189)` looks like.

```
.text, #text, p{  
    color:rgb(37, 62, 189)  
}
```

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(37, 62, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 62, 189) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 78.422, 298.601 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(37, 62, 189) }
```

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

```
.border{ border-color:rgb(37, 62, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 62, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 62, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 62, 189);  
box-shadow:4px 4px 4px 4px rgb(37, 62,  
189) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 78.422, 298.601 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 62, 189) }
```

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

```
.background{ background-color: rgb(37, 62,  
189) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor