

Converting Colors

CIELCh(33, 89.644, 314.491)

Have a look what the booklet for
CIELCh(33, 89.644, 314.491)
contains.

CIELCh(33, 89.644, 314.491)	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, 89.644, 314.491)

Conversions

Conversions Part 1

Format	Color
Hex	7216B5
RGB	114, 22, 181
RGB Percent	45%, 9%, 71%
CMY	0.5517, 0.9120, 0.2890
CMYK	0.37, 0.88, 0.00, 0.29
HSL	275°, 78%, 40%
HSV	275°, 88%, 71%
XYZ	15.6466, 7.5373, 44.5088
YIQ	67.6340, 3.7930, 68.9530

Conversions

Conversions Part 2

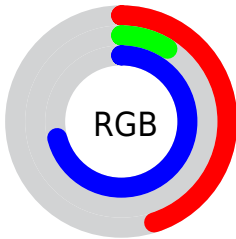
Format	Color
R_{YB}	114, 22, 181
Decimal	7476917
CIE _{Lab}	33.00, 62.82, -63.95
CIE _{LCh}	33, 89.644, 314.491
Yxy	7.5373, 0.2311, 0.1113
Android (android.graphics.Color)	4285666997 (0xFF7216B5)
YUV	67.6340, 55.8894, 40.6630
Hunter-Lab	27.4541, 53.6855, -76.9036

Details

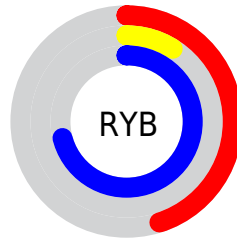
The CIELCh color **33, 89.644, 314.491** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **66, 81.789, 129.345**, and the grayscale version is **29, 0.004, 296.813**.

A 20% lighter version of the original color is **53, 89.646, 314.526**, and **17, 75.221, 310.835** is the 20% darker color. If you saturate the color by 10%, you get **31, 94.036, 313.968**, and if you desaturate by 10%, it is **36, 82.847, 314.680**.

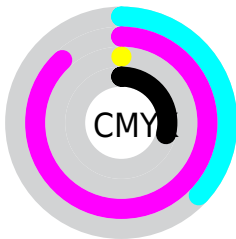
Distribution



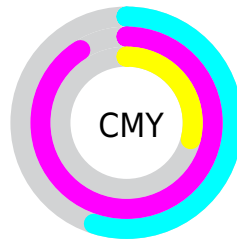
- Red (45%)
- Green (9%)
- Blue (71%)



- Red (45%)
- Yellow (9%)
- Blue (71%)



- Cyan (37%)
- Magenta (88%)
- Yellow (0%)
- Black (29%)





- Cyan (55%)
- Magenta (91%)
- Yellow (29%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 89.644, 314.491 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, 89.644, 314.491 by changing the saturation by 10% instead.


 33, 89.644,
314.491


 33, 89.644,
314.491

 100, 89.644,
314.491


 23, 89.644,
314.491

 53, 89.644,
314.491


 13, 89.644,
314.491


 63, 89.644,
314.491

 3, 89.644, 314.491

 73, 89.644,
314.491

 0, 89.644, 314.491

 83, 89.644,
314.491

 93, 89.644,
314.491

■ 33, 89.644,
314.491

■ 33, 89.644,
314.491

■ 31, 94.036,
313.968

■ 36, 82.847,
314.680

■ 30, 94.970,
313.840

■ 40, 74.022,
314.587

■ 44, 63.845,
314.303

■ 49, 52.908,
313.904

■ 54, 41.640,
313.449

■ 59, 30.326,
312.975

■ 64, 19.140,
312.508

■ 70, 8.181, 312.058

Harmonies

Complementary

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



33, 89.644, 314.491



66, 81.789, 129.345

Rectangle

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



33, 89.644, 314.491



33, 89.644, 4.491



33, 89.644, 134.491



33, 89.644, 184.491

Sweetspot

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



33, 89.644, 314.491



76, 35.148, 312.919



40, 55.226, 284.848



38, 23.884, 313.080



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



33, 89.644, 314.491



40, 115.360, 313.657



43, 82.491, 330.664



36, 6.152, 312.135



25, 84.725, 313.972



2, 16.183, 307.632

Inverse Universe

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



40, 62.723, 4.015



50, 79.466, 10.421



65, 87.092, 137.576



36, 4.628, 348.873



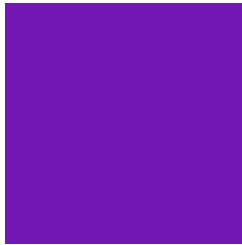
33, 58.411, 8.829



2, 11.733, 355.218

Previews

White Background



This preview shows how the CIELCh color 33, 89.644, 314.491 looks on a white background.

Color Contrast Check

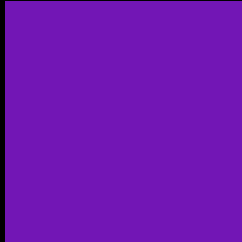
Large Text (above 18pt) WCAG AA ✓ Pass

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, 89.644, 314.491 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

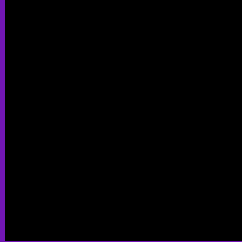
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 89.644, 314.491

Background



This preview shows how black text looks on a background with the CIELCh color 33, 89.644, 314.491.



This preview shows how white text looks on a background with the CIELCh color 33, 89.644, 314.491.

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, 89.644, 314.491

Protanopia

33, 52.968, 285.911

Deuteranopia

33, 37.579, 272.814



Tritanopia
33, 10.003, 359.076

Trichromacy



Original Color
33, 89.644, 314.491



Protanomaly
30, 69.749, 298.748



Deuteranomaly
30, 59.605, 296.273



Tritanomaly
31, 41.367, 319.500

Monochromacy



Original Color
33, 89.644, 314.491



Achromatopsia
29, 0.005, 296.813



Achromatomaly
28, 39.008, 314.283

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 89.644, 314.491 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(114, 22, 181)` looks like.

```
.text, #text, p{  
    color:rgb(114, 22, 181)  
}
```

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(114, 22, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 22, 181) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 89.644, 314.491 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(114, 22, 181) }
```

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

```
.border{ border-color:rgb(114, 22, 181) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 22, 181)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 22, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 22, 181);  
box-shadow:4px 4px 4px 4px rgb(114, 22,  
181) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 89.644, 314.491 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 22, 181) }
```

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

```
.background{ background-color: rgb(114, 22,  
181) }
```

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