

Converting Colors

CIELCh(33, 58.490, 327.690)

Have a look what the booklet for
CIELCh(33, 58.490, 327.690)
contains.

CIELCh(33, 58.735, 327.700)	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, 58.735, 327.700)

Conversions

Conversions Part 1

Format	Color
Hex	802680
RGB	128, 38, 128
RGB Percent	50%, 15%, 50%
CMY	0.4980, 0.8509, 0.4980
CMYK	0.00, 0.70, 0.00, 0.50
HSL	300°, 54%, 33%
HSV	300°, 70%, 50%
XYZ	13.4964, 7.5373, 21.1719
YIQ	75.1700, 24.7500, 47.0700

Conversions

Conversions Part 2

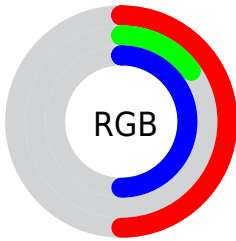
Format	Color
R_{YB}	128, 38, 128
Decimal	8398464
CIE _{Lab}	33.00, 49.65, -31.39
CIE _{LCh}	33, 58.735, 327.700
Yxy	7.5373, 0.3198, 0.1786
Android (android.graphics.Color)	4286588544 (0xFF802680)
YUV	75.1700, 26.0452, 46.3319
Hunter-Lab	27.4541, 39.7057, -26.5051

Details

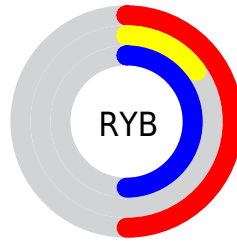
The CIELCh color **33, 58.735, 327.700** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **47, 59.680, 138.369**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 58.313, 327.650**, and **16, 49.075, 326.853** is the 20% darker color. If you saturate the color by 10%, you get **31, 63.718, 327.954**, and if you desaturate by 10%, it is **35, 52.325, 327.367**.

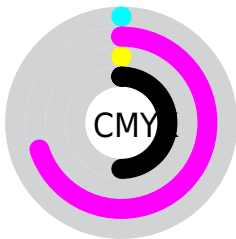
Distribution



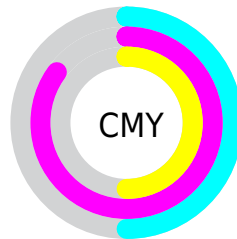
- Red (50%)
- Green (15%)
- Blue (50%)



- Red (50%)
- Yellow (15%)
- Blue (50%)



- Cyan (0%)
- Magenta (70%)
- Yellow (0%)
- Black (50%)




- Cyan (50%)
- Magenta (85%)
- Yellow (50%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 58.735, 327.700 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, 58.735, 327.700 by changing the saturation by 10% instead.


 33, 58.735,
327.700


 33, 58.735,
327.700

 100, 58.735,
327.700


 23, 58.735,
327.700

 53, 58.735,
327.700


 13, 58.735,
327.700


 63, 58.735,
327.700

 3, 58.735, 327.700

 73, 58.735,
327.700

 0, 58.735, 327.700

 83, 58.735,
327.700

 93, 58.735,
327.700

■ 33, 58.735,
327.700

■ 33, 58.735,
327.700

■ 31, 63.718,
327.954

■ 35, 52.325,
327.367

■ 30, 67.093,
328.123

■ 37, 44.787,
326.966

■ 30, 69.332,
328.234

■ 40, 36.447,
326.511

■ 43, 27.607,
326.018

■ 47, 18.515,
325.499

■ 50, 9.360, 324.964

■ 53, 0.275, 323.784

■ 57, 8.650, 143.965

■ 61, 17.361,
143.454

Harmonies

Complementary

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



33, 58.735, 327.700



47, 59.680, 138.369

Rectangle

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



33, 58.735, 327.700



33, 58.735, 17.700



33, 58.735, 147.700



33, 58.735, 197.700

Sweetspot

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



33, 58.733, 327.700



59, 23.662, 325.562



21, 59.264, 301.296



30, 16.142, 325.682



85, 0.010, 296.813



36, 0.005, 296.813

Same Dimension

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



33, 58.733, 327.700



41, 79.471, 328.059



31, 43.152, 352.174



25, 5.102, 324.898



30, 69.129, 328.234



0, 0.000, 0.000

Inverse Universe

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



33, 58.733, 327.700



41, 79.471, 328.059



48, 41.098, 155.617



25, 5.102, 324.898



30, 69.129, 328.234



0, 0.000, 0.000

Previews

White Background



This preview shows how the CIELCh color 33, 58.735, 327.700 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, 58.735, 327.700 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

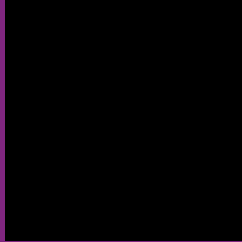
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 58.735, 327.700

Background



This preview shows how black text looks on a background with the CIELCh color 33, 58.735, 327.700.

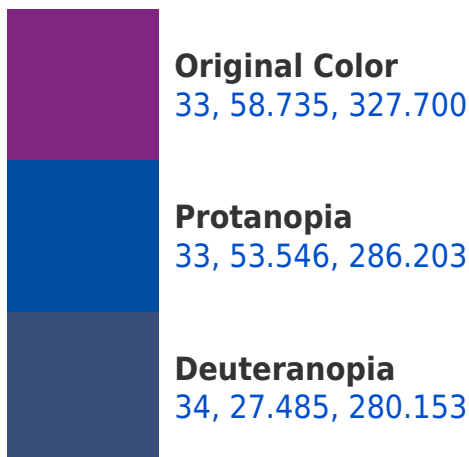


This preview shows how white text looks on a background with the CIELCh color 33, 58.735, 327.700.

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





Tritanopia
33, 28.666, 19.980

Trichromacy



Original Color
33, 58.735, 327.700

Protanomaly
30, 55.174, 295.671

Deuteranomaly
32, 38.569, 305.765

Tritanomaly
33, 35.839, 350.805

Monochromacy



Original Color
33, 58.735, 327.700

Achromatopsia
32, 0.005, 296.813

Achromatomaly
31, 24.028, 326.147

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 58.735, 327.700 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(128, 38, 128)` looks like.

```
.text, #text, p{  
    color:rgb(128, 38, 128)  
}
```

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(128, 38, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 38, 128) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 58.735, 327.700 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(128, 38, 128) }
```

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

```
.border{ border-color:rgb(128, 38, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 38, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 38, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 38, 128);  
box-shadow:4px 4px 4px 4px rgb(128, 38,  
128) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 58.735, 327.700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 38, 128) }
```

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

```
.background{ background-color: rgb(128, 38,  
128) }
```

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