

# Converting Colors

XYZ(33.1994, 17.8653, 42.3481)

Have a look what the booklet for  
XYZ(33.1994, 17.8653, 42.3481)  
contains.

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# Color

**XYZ(33.1933, 17.8483,  
42.2530)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CA31AF
RGB	202, 49, 175
RGB Percent	79%, 19%, 69%
CMY	0.2078, 0.8078, 0.3137
CMYK	0.00, 0.76, 0.13, 0.21
HSL	311°, 61%, 49%
HSV	311°, 76%, 79%
XYZ	33.1933, 17.8483, 42.2530
YIQ	109.1110, 50.7420, 71.6220

# Conversions

## Conversions Part 2

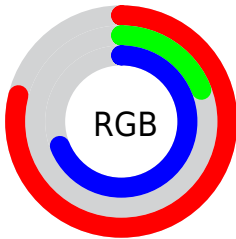
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	202, 49, 175
Decimal	13250991
CIE <sub>Lab</sub>	49.31, 70.59, -33.27
CIE <sub>LCh</sub>	49, 78.040, 334.763
Yxy	17.8483, 0.3558, 0.1913
Android (android.graphics.Color)	4291441071 (0xFFCA31AF)
YUV	109.1110, 32.4833, 81.4637
Hunter-Lab	42.2472, 66.3132, -29.7250

# Details

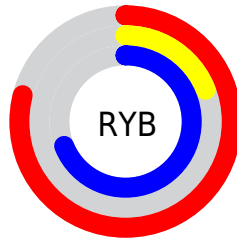
The XYZ color **33.1933, 17.8483, 42.2530** is a dark color, and the websafe version is hex **CC0099**. The color can be described as middle muted rose. A complement of this color would be **23.6926, 43.4166, 13.9707**, and the grayscale version is **14.4692, 15.2227, 16.5775**.

A 20% lighter version of the original color is **61.3482, 38.3984, 79.7795**, and **15.0145, 7.3344, 19.0367** is the 20% darker color. If you saturate the color by 10%, you get **32.1843, 16.3830, 40.2119**, and if you desaturate by 10%, it is **34.5911, 20.0758, 44.4695**.

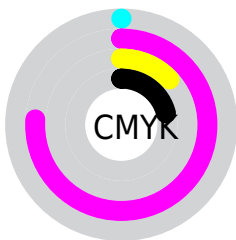
# Distribution



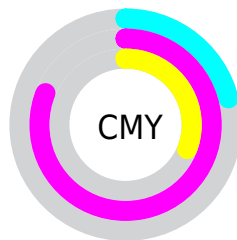
- Red (79%)
- Green (19%)
- Blue (69%)



- Red (79%)
- Yellow (19%)
- Blue (69%)



- Cyan (0%)
- Magenta (76%)
- Yellow (13%)
- Black (21%)




- Cyan (21%)
- Magenta (81%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.1933, 17.8483, 42.2530 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 XYZ color 33.1933, 17.8483, 42.2530 by changing the saturation by 10% instead.




 33.1933, 17.8483,  
42.2530


 33.1933, 17.8483,  
42.2530


308.1695,  
240.0146, 371.3612

 22.4345, 10.8411,  
28.9724


 64.0299, 39.7787,  
79.8566


 14.2949, 5.9601,  
18.8145


 84.8383, 55.4706,  
105.0167


 8.4091, 2.8208,  
11.3609


 109.7274, 74.8264,  
134.9737

 4.4118, 1.0389,  
6.1929

 139.0625, 98.2302,  
170.1461

 1.9377, 0.0000,  
2.8921

 173.2089,  
126.0665, 210.9526

 0.5986, 0.0000,  
1.0398

212.5319,

 0.0000, 0.0000,

158.7198, 257.8115

0.0000

257.3970,  
196.5743, 311.1416

■ 33.1933, 17.8483,  
42.2530

■ 33.1933, 17.8483,  
42.2530

■ 32.1843, 16.3830,  
40.2119

■ 34.5911, 20.0758,  
44.4695

■ 31.5066, 15.5659,  
38.3264

■ 36.4208, 23.1525,  
46.8759

■ 31.2726, 15.3228,  
37.5549

■ 38.7217, 27.1565,  
49.4856

■ 41.5282, 32.1566,  
52.3104

■ 44.8713, 38.2147,  
55.3611

■ 48.7796, 45.3879,  
58.6475

■ 53.2797, 53.7292,  
62.1787

■ 58.3963, 63.2880,  
65.9634

■ 64.1528, 74.1110,  
70.0097

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



26.3469, 17.8483, 75.1121



33.1933, 17.8483, 42.2530



35.2654, 17.8483, 16.2684

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



33.1933, 17.8483, 42.2530



15.8197, 17.8483, 0.5068



7.8132, 17.8483, 52.7743

# Complementary

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



33.1933, 17.8483, 42.2530



23.6926, 43.4166, 13.9707

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



6.4312, 17.8483, 22.9852



33.1933, 17.8483, 42.2530



10.1246, 17.8483, 1.5522

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



33.1933, 17.8483, 42.2530



23.7186, 17.8483, 1.0095



7.1353, 17.8483, 6.7955



11.6319, 17.8483, 83.6809



# Rectangle

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



33.1933, 17.8483, 42.2530



33.2706, 17.8483, 6.9472



7.1353, 17.8483, 6.7955



7.1076, 17.8483, 41.7459

# Sweetspot

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



33.1939, 17.8492, 42.2533



77.4869, 67.4691, 95.0446



14.6227, 7.9377, 56.6391



16.1003, 13.5556, 19.9213



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



33.1939, 17.8492, 42.2533



53.6890, 26.7283, 65.9792



27.7566, 15.6742, 13.6206



11.5993, 11.3684, 13.6904



20.1529, 9.8718, 24.3218



1.0625, 0.5184, 1.3752



# Inverse Universe

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



33.1939, 17.8492, 42.2533



53.6890, 26.7283, 65.9792



27.9740, 45.1291, 36.5160



11.5993, 11.3684, 13.6904



20.1529, 9.8718, 24.3218



1.0625, 0.5184, 1.3752



# Previews

## White Background



This preview shows how the XYZ color 33.1933, 17.8483, 42.2530 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

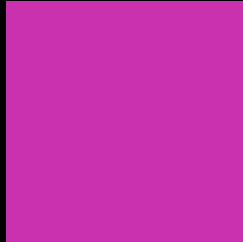
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.1933, 17.8483, 42.2530 looks on a black 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 × Fail

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

**XYZ 33.1933, 17.8483, 42.2530**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.1933, 17.8483, 42.2530.



This preview shows how white text looks on a background with the XYZ color 33.1933, 17.8483,



# 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

33.1933, 17.8483, 42.2530

### Protanopia

21.6134, 18.4085, 78.0153

### Deuteranopia

18.6111, 18.2425, 38.6166



## Tritanopia

26.5007, 17.7307, 10.6199

# Trichromacy



## Original Color

33.1933, 17.8483, 42.2530



## Protanomaly

21.0076, 14.8990, 63.3966



## Deuteranomaly

21.4698, 15.9221, 39.4778



## Tritanomaly

28.1631, 17.3000, 18.9944

# Monochromacy



## Original Color

33.1933, 17.8483, 42.2530



## Achromatopsia

14.5356, 15.2926, 16.6537



## Achromatomaly

18.9695, 14.3495, 23.9602

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.1933, 17.8483, 42.2530 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(202, 49, 175)` looks like.

```
.text, #text, p{  
    color:rgb(202, 49, 175)  
}
```

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(202, 49, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 49, 175) }
```

## Border

The CSS property to change the border of an element to XYZ 33.1933, 17.8483, 42.2530 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(202, 49, 175) }
```



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

```
.border{ border-color:rgb(202, 49, 175) }
```

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

Here you see how a box with a 4 pixel rgb(202, 49, 175) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 49, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 49, 175);  
box-shadow:4px 4px 4px 4px rgb(202, 49,  
175) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.1933, 17.8483, 42.2530 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 49, 175) }
```

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

```
.background{ background-color: rgb(202, 49,  
175) }
```

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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