

# Converting Colors

XYZ(45.5879, 33.2568, 96.9680)

Have a look what the booklet for  
XYZ(45.5879, 33.2568, 96.9680)  
contains.

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# Color

**XYZ(45.7198, 33.3714,  
96.9601)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B982FD
RGB	185, 130, 253
RGB Percent	73%, 51%, 99%
CMY	0.2745, 0.4902, 0.0078
CMYK	0.27, 0.49, 0.00, 0.01
HSL	267°, 97%, 75%
HSV	267°, 49%, 99%
XYZ	45.7198, 33.3714, 96.9601
YIQ	160.4670, -6.7030, 49.9130

# Conversions

## Conversions Part 2

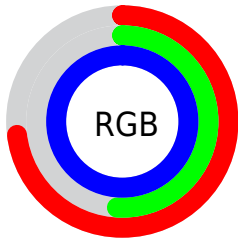
Format	Color
R <sub>Y</sub> B	185, 130, 253
Decimal	12157693
CIE Lab	64.46, 44.95, -53.69
CIE LCh	64, 70.024, 309.937
Yxy	33.3714, 0.2597, 0.1896
Android (android.graphics.Color)	4290347773 (0xFFB982FD)
YUV	160.4670, 45.6188, 21.5154
Hunter-Lab	57.7680, 40.1778, -59.0771

# Details

The XYZ color **45.7198, 33.3714, 96.9601** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **62.4439, 83.8687, 34.0174**, and the grayscale version is **33.4283, 35.1692, 38.2993**.

A 20% lighter version of the original color is **72.1526, 60.5557, 102.4933**, and **21.8130, 14.2446, 53.8244** is the 20% darker color. If you saturate the color by 10%, you get **39.5492, 25.7944, 95.8234**, and if you desaturate by 10%, it is **53.0521, 42.7764, 98.3896**.

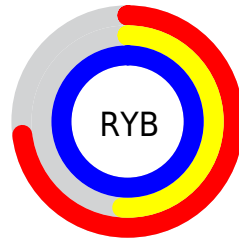
# Distribution



Red (73%)

Green (51%)

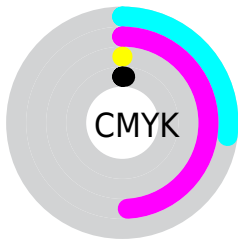
Blue (99%)



Red (73%)

Yellow (51%)

Blue (99%)

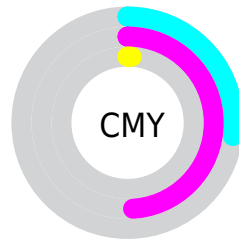


Cyan (27%)

Magenta (49%)

Yellow (0%)

Black (1%)



Cyan (27%)

Magenta (49%)


Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.7198, 33.3714, 96.9601 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 45.7198, 33.3714, 96.9601 by changing the saturation by 10% instead.





 45.7198, 33.3714,  
96.9601

 45.7198, 33.3714,  
96.9601

360.4159,  
317.3200, 571.5650


 32.2285, 22.4111,  
73.1616


 83.0299, 64.9549,  
158.9886

 21.6924, 14.1593,  
53.6155


 107.5794, 86.3470,  
198.0556

 13.7464, 8.2315,  
37.9032


 136.5457,  
111.9851, 243.0493

 8.0250, 4.2435,  
25.6063

170.2941,  
142.2536, 294.3880

 4.1629, 1.8107,  
16.3063

209.1899,  
177.5370, 352.4904

 1.7947, 0.4938,  
9.5844

253.5986,

 0.5145, 0.0000,

218.2195, 417.7750

5.0223

303.8855,  
264.6858, 490.6604

■ 0.0000, 0.0000,  
2.2014

■ 0.0000, 0.0000,  
0.6752

■ 45.7198, 33.3714,  
96.9601

■ 45.7198, 33.3714,  
96.9601

■ 39.5492, 25.7944,  
95.8234

■ 53.0521, 42.7764,  
98.3896

■ 34.4652, 19.9132,  
94.9562

■ 61.6069, 54.1212,  
100.1285

■ 30.3888, 15.5833,  
94.3353

■ 71.4449, 67.5130,  
102.1948

■ 27.2260, 12.6325,  
93.9324

■ 82.6213, 83.0498,  
104.6047

■ 24.8470, 10.8174,  
93.7075

94.7066, 99.8600,  
107.2124

■ 24.5568, 10.6114,  
93.6830

94.7297, 99.8719,  
107.2135

# Harmonies

## Analogous

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



35.1510, 33.3714, 121.9472



45.7198, 33.3714, 96.9601



53.4044, 33.3714, 58.6686

# Triad

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



45.7198, 33.3714, 96.9601



38.7764, 33.3714, 5.2838



16.3082, 33.3714, 46.6825

# Complementary

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



45.7198, 33.3714, 96.9601



62.4439, 83.8687, 34.0174

# 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.



16.8780, 33.3714, 20.5399



45.7198, 33.3714, 96.9601



28.5171, 33.3714, 4.6188

# Square

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



45.7198, 33.3714, 96.9601



48.8480, 33.3714, 11.2228



20.9145, 33.3714, 8.3685



19.1501, 33.3714, 84.3404



# Rectangle

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



45.7198, 33.3714, 96.9601



55.0715, 33.3714, 36.3959



20.9145, 33.3714, 8.3685



16.1239, 33.3714, 36.2757

# Sweetspot

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



45.7211, 33.3727, 96.9609



76.6822, 74.1846, 104.8852



47.5214, 53.0085, 100.6561



15.9149, 15.1892, 22.3430



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.



45.7211, 33.3727, 96.9609



40.6038, 26.6673, 97.6150



63.2995, 42.4347, 97.7835



17.7742, 17.7753, 22.7441



13.2252, 5.7283, 49.8432



1.4112, 0.6214, 4.8588



# Inverse Universe

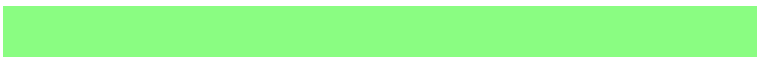
The Inverse Universe completely reimagines the original color for something new.



58.6845, 40.9262, 58.2332



55.6788, 35.4645, 51.9779



49.6698, 77.2834, 33.4195



18.4297, 18.1552, 20.8800



24.1363, 12.1438, 14.6341

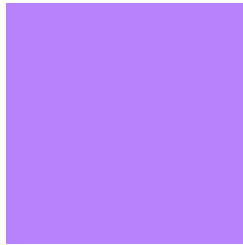


2.4051, 1.2044, 1.7148



# Previews

## White Background



This preview shows how the XYZ color 45.7198, 33.3714, 96.9601 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

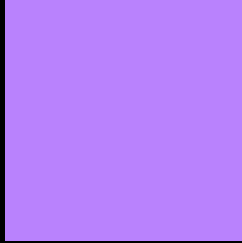
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.7198, 33.3714, 96.9601 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

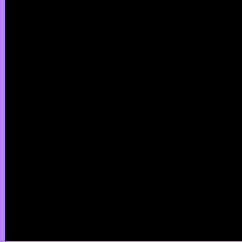
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 45.7198, 33.3714, 96.9601

## Background



This preview shows how black text looks on a background with the XYZ color 45.7198, 33.3714, 96.9601.



This preview shows how white text looks on a background with the XYZ color 45.7198, 33.3714,



# 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

45.7198, 33.3714, 96.9601

### Protanopia

36.5115, 33.6473, 99.1780

### Deuteranopia

34.9441, 33.9554, 93.5192



## Tritanopia

34.0397, 33.2126, 39.2669

# Trichromacy



## Original Color

45.7198, 33.3714, 96.9601

## Protanomaly

38.8300, 32.9820, 98.0855

## Deuteranomaly

37.6807, 32.9205, 94.8108

## Tritanomaly

37.4655, 32.7444, 56.5702

# Monochromacy



## Original Color

45.7198, 33.3714, 96.9601

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

36.8472, 33.8250, 55.6257

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.7198, 33.3714, 96.9601 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(185, 130, 253)` looks like.

```
.text, #text, p{  
    color:rgb(185, 130, 253)  
}
```

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(185, 130, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 130, 253) }
```

## Border

The CSS property to change the border of an element to XYZ 45.7198, 33.3714, 96.9601 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(185, 130, 253) }
```



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

```
.border{ border-color:rgb(185, 130, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(185, 130, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 130, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 130, 253);  
box-shadow:4px 4px 4px 4px rgb(185, 130,  
253) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.7198, 33.3714, 96.9601 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 130, 253) }
```

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

```
.background{ background-color: rgb(185,  
130, 253) }
```

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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