

# Converting Colors

XYZ(33.8536, 31.3359, 57.7716)

Have a look what the booklet for  
XYZ(33.8536, 31.3359, 57.7716)  
contains.

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# Color

**XYZ(33.8360, 31.2966,  
57.6836)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9B91C6
RGB	155, 145, 198
RGB Percent	61%, 57%, 78%
CMY	0.3921, 0.4314, 0.2235
CMYK	0.22, 0.27, 0.00, 0.22
HSL	251°, 32%, 67%
HSV	251°, 27%, 78%
XYZ	33.8360, 31.2966, 57.6836
YIQ	154.0320, -11.0530, 18.6030

# Conversions

## Conversions Part 2

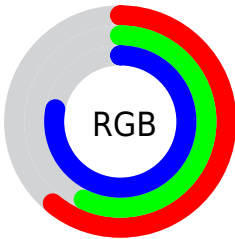
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	155, 145, 198
Decimal	10195398
CIE Lab	62.76, 14.89, -26.04
CIE LCh	63, 30.000, 299.765
Yxy	31.2966, 0.2755, 0.2548
Android (android.graphics.Color)	4288385478 (0xFF9B91C6)
YUV	154.0320, 21.6762, 0.8489
Hunter-Lab	55.9434, 10.0605, -21.9740

# Details

The XYZ color **33.8360, 31.2966, 57.6836** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **46.0450, 53.1247, 34.6167**, and the grayscale version is **30.6414, 32.2372, 35.1063**.

A 20% lighter version of the original color is **65.0518, 61.7685, 103.1017**, and **14.7198, 13.0816, 28.1347** is the 20% darker color. If you saturate the color by 10%, you get **28.1896, 24.2796, 56.6273**, and if you desaturate by 10%, it is **40.4220, 39.5821, 58.9363**.

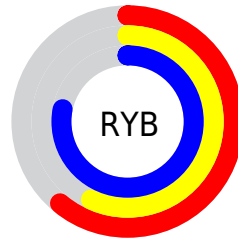
# Distribution



Red (61%)

Green (57%)

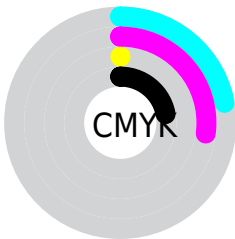
Blue (78%)



Red (61%)

Yellow (57%)

Blue (78%)

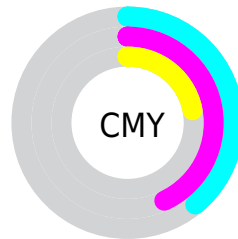


Cyan (22%)

Magenta (27%)

Yellow (0%)

Black (22%)



Cyan (39%)

Magenta (43%)

Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8360, 31.2966, 57.6836 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 33.8360, 31.2966, 57.6836 by changing the saturation by 10% instead.



■ 33.8360, 31.2966,  
57.6836

■ 33.8360, 31.2966,  
57.6836

310.9990,  
307.9024, 433.5712

■ 22.9299, 20.8248,  
41.1413

■ 65.0245, 61.7067,  
102.9722

■ 14.6622, 12.9960,  
28.1090

■ 86.0377, 82.4139,  
132.5556

■ 8.6674, 7.4258,  
18.1681

111.1507,  
107.3016, 167.3231

■ 4.5803, 3.7298,  
10.9000

140.7287,  
136.7542, 207.6932

■ 2.0354, 1.5236,  
5.8863

175.1372,  
171.1563, 254.0846

■ 0.6537, 0.3052,  
2.7084

214.7415,

■ 0.0000, 0.0000,

210.8920, 306.9157

0.9477

259.9070,  
256.3460, 366.6050

0.0000, 0.0000,  
0.0000

33.8360, 31.2966,  
57.6836

33.8360, 31.2966,  
57.6836

28.1896, 24.2796,  
56.6273

40.4220, 39.5821,  
58.9363

23.4361, 18.4643,  
55.7554

47.9849, 49.1909,  
60.3923

19.5297, 13.7836,  
55.0578

56.5640, 60.1791,  
62.0611

16.4190, 10.1619,  
54.5227

66.1954, 72.5986,  
63.9507

14.0469, 7.5144,  
54.1367

76.9133, 86.4985,  
66.0687

■ 12.3479, 5.7431,  
53.8844

■ 85.8772, 96.1789,  
67.4648

■ 11.2401, 4.7202,  
53.7453

■ 87.1931, 96.8573,  
67.5264

■ 10.9689, 4.4772,  
53.7127

# Harmonies

## Analogous

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



29.7142, 31.2966, 62.0202



33.8360, 31.2966, 57.6836



37.0936, 31.2966, 46.7620

# Triad

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



33.8360, 31.2966, 57.6836



33.8970, 31.2966, 18.0507



22.5365, 31.2966, 33.9843

# Complementary

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



33.8360, 31.2966, 57.6836



46.0450, 53.1247, 34.6167

# 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.



23.4398, 31.2966, 23.9219



33.8360, 31.2966, 57.6836



29.7788, 31.2966, 16.1132

# Square

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



33.8360, 31.2966, 57.6836



37.1311, 31.2966, 24.0486



26.0005, 31.2966, 17.9902



23.4123, 31.2966, 46.5645



# Rectangle

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



33.8360, 31.2966, 57.6836



38.2020, 31.2966, 38.2494



26.0005, 31.2966, 17.9902



22.6409, 31.2966, 30.2191

# Sweetspot

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



33.8370, 31.2979, 57.6843



83.0547, 84.6628, 106.5718



39.9149, 46.1855, 60.2376



17.3227, 17.5426, 22.7230



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.



33.8370, 31.2979, 57.6843



54.0058, 48.0534, 101.0366



39.4264, 34.1793, 57.9459



10.2403, 10.3822, 13.3817



7.1876, 2.9396, 34.9329



0.3982, 0.1690, 1.6568



# Inverse Universe

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



42.4922, 35.8887, 52.2658



71.9300, 57.5686, 89.4516



40.1622, 50.0920, 34.3414



10.9940, 10.7810, 12.9515



19.3382, 9.4849, 22.7888

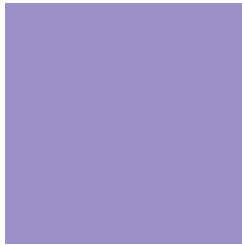


0.9385, 0.4582, 1.1991



# Previews

## White Background



This preview shows how the XYZ color 33.8360, 31.2966, 57.6836 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 33.8360, 31.2966, 57.6836 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

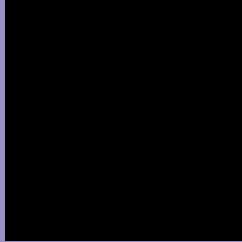
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.8360, 31.2966, 57.6836**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.8360, 31.2966, 57.6836.



This preview shows how white text looks on a background with the XYZ color 33.8360, 31.2966,



# 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

33.8360, 31.2966, 57.6836

### Protanopia

31.8835, 31.3953, 60.2566

### Deuteranopia

31.9808, 31.2769, 57.1748



## Tritanopia

30.0719, 31.1671, 39.0812

# Trichromacy



## Original Color

33.8360, 31.2966, 57.6836

## Protanomaly

32.6341, 31.3261, 59.5849

## Deuteranomaly

32.7006, 31.4141, 57.1633

## Tritanomaly

31.3464, 31.2088, 45.4461

# Monochromacy



## Original Color

33.8360, 31.2966, 57.6836

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

31.6487, 31.9055, 42.5205

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.8360, 31.2966, 57.6836 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(155, 145, 198)` looks like.

```
.text, #text, p{  
    color:rgb(155, 145, 198)  
}
```

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(155, 145, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 145, 198) }
```

## Border

The CSS property to change the border of an element to XYZ 33.8360, 31.2966, 57.6836 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(155, 145, 198) }
```



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

```
.border{ border-color:rgb(155, 145, 198) }
```

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

Here you see how a box with a 4 pixel `rgb(155, 145, 198)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(155, 145, 198); -webkit-box-  
shadow:4px 4px 4px 4px rgb(155, 145, 198);  
box-shadow:4px 4px 4px 4px rgb(155, 145,  
198) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.8360, 31.2966, 57.6836 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 145, 198) }
```

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

```
.background{ background-color: rgb(155,  
145, 198) }
```

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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