

# Converting Colors

XYZ(31.6839, 32.1212, 39.6848)

Have a look what the booklet for  
XYZ(31.6839, 32.1212, 39.6848)  
contains.

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# Color

**XYZ(31.8337, 32.3049,  
39.6796)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9D98A4
RGB	157, 152, 164
RGB Percent	62%, 60%, 64%
CMY	0.3843, 0.4039, 0.3569
CMYK	0.04, 0.07, 0.00, 0.36
HSL	265°, 6%, 62%
HSV	265°, 7%, 64%
XYZ	31.8337, 32.3049, 39.6796
YIQ	154.8630, -0.8720, 4.7920

# Conversions

## Conversions Part 2

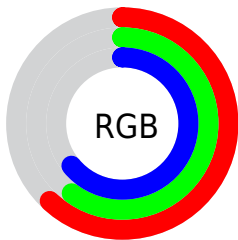
<b>Format</b>	<b>Color</b>
<b>RYB</b>	157, 152, 164
Decimal	10328228
CIELab	63.59, 4.15, -5.63
CIELCh	64, 6.993, 306.445
Yxy	32.3049, 0.3066, 0.3112
Android (android.graphics.Color)	4288518308 (0xFF9D98A4)
YUV	154.8630, 4.5045, 1.8741
Hunter-Lab	56.8374, 0.5095, -1.6056

# Details

The XYZ color **31.8337, 32.3049, 39.6796** is a light color, and the websafe version is hex **999999**. A complement of this color would be **33.2422, 36.1897, 34.9406**, and the grayscale version is **31.0769, 32.6953, 35.6052**.

A 20% lighter version of the original color is **62.0089, 63.2541, 75.9589**, and **13.5222, 13.5414, 17.2303** is the 20% darker color. If you saturate the color by 10%, you get **27.5597, 26.4204, 38.7695**, and if you desaturate by 10%, it is **36.6238, 39.0037, 40.7206**.

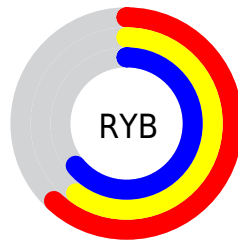
# Distribution



Red (62%)

Green (60%)

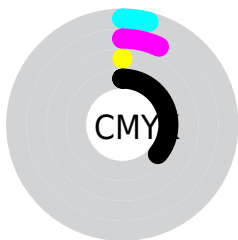
Blue (64%)



Red (62%)

Yellow (60%)

Blue (64%)

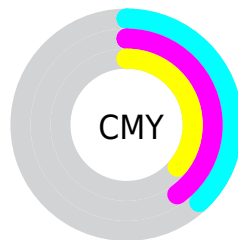


Cyan (4%)

Magenta (7%)

Yellow (0%)

Black (36%)



Cyan (38%)

Magenta (40%)

Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8337, 32.3049, 39.6796 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 31.8337, 32.3049, 39.6796 by changing the saturation by 10% instead.



■ 31.8337, 32.3049,  
39.6796

■ 31.8337, 32.3049,  
39.6796

302.1198,  
312.5058, 360.2831

■ 21.3894, 21.5945,  
26.9769

■ 61.9172, 63.2888,  
75.9071

■ 13.5230, 13.5592,  
17.3236

■ 82.2872, 84.3310,  
100.2690

■ 7.8692, 7.8148,  
10.3011

106.6965,  
109.5860, 129.3545

■ 4.0624, 3.9766,  
5.4908

135.5105,  
139.4381, 163.5820

■ 1.7375, 1.6605,  
2.4743

169.0944,  
174.2718, 203.3700

■ 0.4796, 0.3979,  
0.8265

207.8137,

■ 0.0000, 0.0000,

214.4714, 249.1372

0.0000

252.0337,  
260.4212, 301.3021

■ 31.8337, 32.3049,  
39.6796

■ 31.8337, 32.3049,  
39.6796

■ 27.5597, 26.4204,  
38.7695

■ 36.6238, 39.0037,  
40.7206

■ 23.7808, 21.3142,  
37.9831

■ 41.9447, 46.5426,  
41.8953

■ 20.4783, 16.9540,  
37.3156

■ 47.8138, 54.9513,  
43.2090

■ 17.6313, 13.3032,  
36.7609

■ 54.2467, 64.2569,  
44.6662

■ 15.2175, 10.3224,  
36.3128

■ 61.2588, 74.4854,  
46.2709

13.2120, 7.9679,  
35.9640

68.8645, 85.6615,  
48.0272

11.5873, 6.1909,  
35.7067

73.1956, 90.0447,  
48.6450

10.3121, 4.9347,  
35.5314

76.2450, 91.6167,  
48.7877

9.3388, 4.1112,  
35.4238

79.4640, 93.2761,  
48.9383

# Harmonies

## Analogous

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



30.9161, 32.3049, 40.7926



31.8337, 32.3049, 39.6796



32.4582, 32.3049, 37.3674

# Triad

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



31.8337, 32.3049, 39.6796



31.4613, 32.3049, 30.4723



28.8768, 32.3049, 35.7815

# Complementary

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



31.8337, 32.3049, 39.6796



33.2422, 36.1897, 34.9406

# 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.



29.0158, 32.3049, 33.0692



31.8337, 32.3049, 39.6796



30.4946, 32.3049, 30.0976

# Square

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



31.8337, 32.3049, 39.6796



32.2400, 32.3049, 32.0761



29.6030, 32.3049, 31.0241



29.2192, 32.3049, 38.4664



# Rectangle

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



31.8337, 32.3049, 39.6796



32.6171, 32.3049, 35.5090



29.6030, 32.3049, 31.0241



28.8689, 32.3049, 34.8422

# Sweetspot

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



31.8346, 32.3063, 39.6803



62.2541, 64.8696, 72.9923



32.0834, 34.2220, 40.0370



13.6325, 14.2132, 15.9624



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



31.8346, 32.3063, 39.6803



56.2764, 56.5503, 71.7016



32.9934, 32.9036, 39.7345



6.9670, 6.9973, 8.8865



7.0345, 3.0329, 27.1444



0.2010, 0.0912, 0.5729



# Inverse Universe

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



32.7972, 32.8536, 37.4153



58.4488, 57.7860, 66.5739



32.1187, 35.6105, 34.8880



7.2389, 7.1520, 8.2445



13.3707, 6.7044, 9.1429



0.3037, 0.1500, 0.3121



# Previews

## White Background



This preview shows how the XYZ color 31.8337, 32.3049, 39.6796 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 31.8337, 32.3049, 39.6796 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

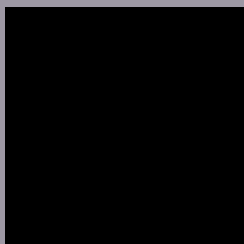
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.8337, 32.3049, 39.6796**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8337, 32.3049, 39.6796.



This preview shows how white text looks on a background with the XYZ color 31.8337, 32.3049,

39.6796.

# 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

31.8337, 32.3049, 39.6796

### Protanopia

31.5092, 32.3691, 40.1845

### Deuteranopia

32.9170, 32.3855, 39.6381



## Tritanopia

31.8337, 32.3049, 39.6796

# Trichromacy



## Original Color

31.8337, 32.3049, 39.6796

## Protanomaly

31.7003, 32.4676, 40.1934

## Deuteranomaly

32.4654, 32.3906, 39.6629

## Tritanomaly

31.8337, 32.3049, 39.6796

# Monochromacy



## Original Color

31.8337, 32.3049, 39.6796

## Achromatopsia

31.1553, 32.7778, 35.6950

## Achromatomaly

31.4375, 32.6477, 36.9925

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8337, 32.3049, 39.6796 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(157, 152, 164) looks like.

```
.text, #text, p{  
    color:rgb(157, 152, 164)  
}
```

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(157, 152, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 152, 164) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8337, 32.3049, 39.6796 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(157, 152, 164) }
```



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

```
.border{ border-color:rgb(157, 152, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 152, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 152, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 152, 164);  
box-shadow:4px 4px 4px 4px rgb(157, 152,  
164) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8337, 32.3049, 39.6796 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 152, 164) }
```

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

```
.background{ background-color: rgb(157,  
152, 164) }
```

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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