

# Converting Colors

XYZ(31.2568, 33.8144, 32.6323)

Have a look what the booklet for  
XYZ(31.2568, 33.8144, 32.6323)  
contains.

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# **Color**

**XYZ(31.3749, 33.9708,  
32.5071)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9C9F93
RGB	156, 159, 147
RGB Percent	61%, 62%, 58%
CMY	0.3882, 0.3765, 0.4235
CMYK	0.02, 0.00, 0.08, 0.38
HSL	75°, 6%, 60%
HSV	75°, 8%, 62%
XYZ	31.3749, 33.9708, 32.5071
YIQ	156.7350, 2.0640, -4.3680

# Conversions

## Conversions Part 2

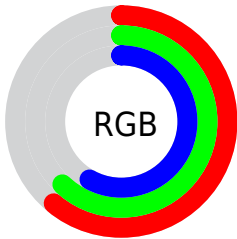
<b>Format</b>	<b>Color</b>
<b>RYB</b>	147, 159, 150
Decimal	10264467
CIELab	64.94, -3.32, 5.88
CIELCh	65, 6.753, 119.458
Yxy	33.9708, 0.3206, 0.3472
Android (android.graphics.Color)	4288454547 (0xFF9C9F93)
YUV	156.7350, -4.7994, -0.6446
Hunter-Lab	58.2845, -5.9102, 7.7312

# Details

The XYZ color **31.3749, 33.9708, 32.5071** is a light color, and the websafe version is hex **999999**. A complement of this color would be **29.2707, 29.8556, 37.0227**, and the grayscale version is **31.9498, 33.6137, 36.6053**.

A 20% lighter version of the original color is **61.1675, 66.0118, 64.7760**, and **13.2996, 14.5729, 13.1782** is the 20% darker color. If you saturate the color by 10%, you get **29.4555, 33.1166, 26.3482**, and if you desaturate by 10%, it is **33.4939, 34.9099, 39.5770**.

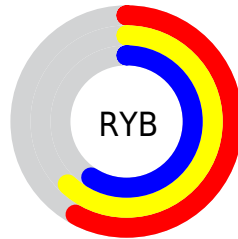
# Distribution



Red (61%)

Green (62%)

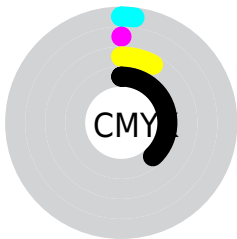
Blue (58%)



Red (58%)

Yellow (62%)

Blue (59%)

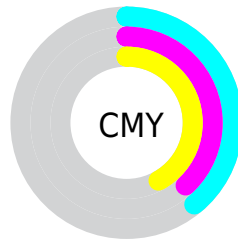


Cyan (2%)

Magenta (0%)

Yellow (8%)

Black (38%)



Cyan (39%)

Magenta (38%)

Yellow (42%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3749, 33.9708, 32.5071 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 31.3749, 33.9708, 32.5071 by changing the saturation by 10% instead.



■ 31.3749, 33.9708,  
32.5071

■ 31.3749, 33.9708,  
32.5071

300.0579,  
320.0018, 327.9864

■ 21.0377, 22.8712,  
21.4811

■ 61.2017, 65.8883,  
64.7123

■ 13.2642, 14.4984,  
13.2815

■ 81.4220, 87.4749,  
86.7287

■ 7.6890, 8.4681,  
7.4896

105.6673,  
113.3259, 113.2455

■ 3.9467, 4.3959,  
3.6871

134.3032,  
143.8258, 144.6814

■ 1.6720, 1.8974,  
1.4553

167.6948,  
179.3590, 181.4549

■ 0.4387, 0.5468,  
0.1843

206.2075,

■ 0.0000, 0.0000,

220.3098, 223.9846

0.0000

250.2068,  
267.0626, 272.6889

■ 31.3749, 33.9708,  
32.5071

■ 31.3749, 33.9708,  
32.5071

■ 29.4555, 33.1166,  
26.3482

■ 33.4939, 34.9099,  
39.5770

■ 27.7256, 32.3401,  
21.0611

■ 35.8166, 35.9323,  
47.5907

■ 26.1784, 31.6395,  
16.6070

■ 38.3503, 37.0421,  
56.5820

■ 24.8056, 31.0114,  
12.9431

■ 41.1014, 38.2418,  
66.5823

■ 23.5981, 30.4523,  
10.0232

■ 44.0756, 39.5339,  
77.6218

■ 22.5459, 29.9581,  
7.7958

■ 47.2789, 40.9205,  
89.7291

■ 21.6377, 29.5242,  
6.2033

■ 50.1799, 42.1894,  
100.1063

■ 20.8607, 29.1455,  
5.1786

■ 51.1454, 42.6871,  
100.1515

■ 20.1931, 28.8133,  
4.6092

■ 52.1379, 43.1988,  
100.1980

# Harmonies

## Analogous

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



32.3060, 33.9708, 31.8745



31.3749, 33.9708, 32.5071



30.7002, 33.9708, 34.3262

# Triad

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



31.3749, 33.9708, 32.5071



31.3448, 33.9708, 41.8086



34.1996, 33.9708, 37.0393

# Complementary

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



31.3749, 33.9708, 32.5071



29.2707, 29.8556, 37.0227

# 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.



33.9301, 33.9708, 39.7849



31.3749, 33.9708, 32.5071



32.2705, 33.9708, 42.6220

# Square

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



31.3749, 33.9708, 32.5071



30.6830, 33.9708, 39.6925



33.2191, 33.9708, 41.8638



33.9485, 33.9708, 34.4100



# Rectangle

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



31.3749, 33.9708, 32.5071



30.4798, 33.9708, 36.0146



33.2191, 33.9708, 41.8638



34.1668, 33.9708, 37.9796

# Sweetspot

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



31.3758, 33.9723, 32.5078



58.2339, 61.7447, 64.9863



30.4721, 31.2912, 32.0380



13.1390, 13.9248, 14.6853



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



31.3758, 33.9723, 32.5078



55.6066, 60.5795, 56.3169



30.2434, 33.3885, 32.4548



7.0080, 7.6368, 7.0903



15.8644, 22.7151, 3.5483



0.3194, 0.4246, 0.0651



# Inverse Universe

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



29.2707, 29.8556, 37.0227



51.0758, 51.7191, 66.0342



30.4032, 30.4394, 37.0757



6.4325, 6.5115, 8.3245



5.6609, 2.3473, 26.0619



0.1363, 0.0601, 0.4676



# Previews

## White Background



This preview shows how the XYZ color 31.3749, 33.9708, 32.5071 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 31.3749, 33.9708, 32.5071 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

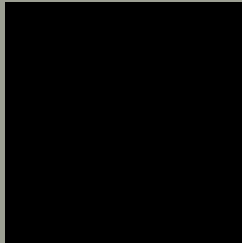
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

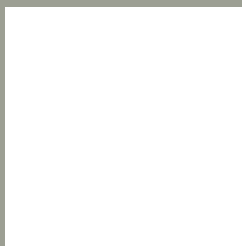
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.3749, 33.9708, 32.5071**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.3749, 33.9708, 32.5071.



This preview shows how white text looks on a background with the XYZ color 31.3749, 33.9708,



# 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

31.3749, 33.9708, 32.5071

### Protanopia

32.3495, 33.9758, 32.0471

### Deuteranopia

34.4780, 33.8247, 32.7286



## Tritanopia

33.2544, 33.9750, 41.8509

# Trichromacy



## Original Color

31.3749, 33.9708, 32.5071

## Protanomaly

31.9124, 34.0026, 32.0753

## Deuteranomaly

33.4288, 34.0158, 32.8208

## Tritanomaly

32.5027, 33.9211, 38.0921

# Monochromacy



## Original Color

31.3749, 33.9708, 32.5071

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

31.8813, 33.9217, 35.0042

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.3749, 33.9708, 32.5071 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(156, 159, 147)` looks like.

```
.text, #text, p{  
    color:rgb(156, 159, 147)  
}
```

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(156, 159, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 159, 147) }
```

## Border

The CSS property to change the border of an element to XYZ 31.3749, 33.9708, 32.5071 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(156, 159, 147) }
```



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

```
.border{ border-color:rgb(156, 159, 147) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 159, 147)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 159, 147); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 159, 147);  
box-shadow:4px 4px 4px 4px rgb(156, 159,  
147) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.3749, 33.9708, 32.5071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 159, 147) }
```

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

```
.background{ background-color: rgb(156,  
159, 147) }
```

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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