

# Converting Colors

XYZ(29.7684, 31.9003, 33.5261)

Have a look what the booklet for  
XYZ(29.7684, 31.9003, 33.5261)  
contains.

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# Color

**XYZ(29.6383, 31.7972,  
33.4295)**

# Conversions

Conversions Part 1	
Format	Color
Hex	969A96
RGB	150, 154, 150
RGB Percent	59%, 60%, 59%
CMY	0.4118, 0.3961, 0.4118
CMYK	0.03, 0.00, 0.03, 0.40
HSL	120°, 2%, 60%
HSV	120°, 3%, 60%
XYZ	29.6383, 31.7972, 33.4295
YIQ	152.3480, -1.1000, -2.0920

# Conversions

## Conversions Part 2

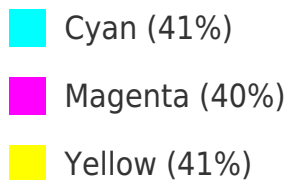
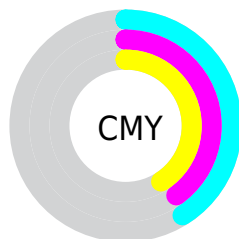
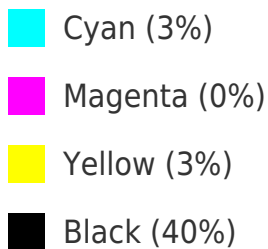
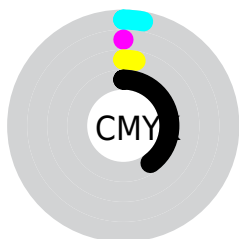
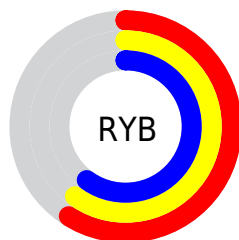
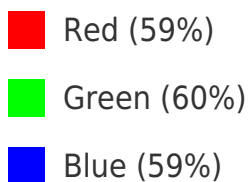
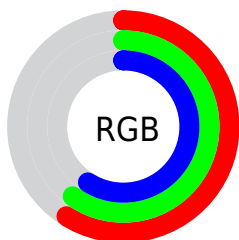
Format	Color
<a href="#">RYB</a>	<a href="#">150, 154, 154</a>
Decimal	<a href="#">9869974</a>
CIELab	<a href="#">63.17, -2.21, 1.59</a>
CIELCh	<a href="#">63, 2.722, 144.377</a>
Yxy	<a href="#">31.7972, 0.3124, 0.3352</a>
Android (android.graphics.Color)	<a href="#">4288060054</a> (0xFF969A96)
YUV	<a href="#">152.3480, -1.1576, -2.0592</a>
Hunter-Lab	<a href="#">56.3890, -4.8604, 4.3230</a>

# Details

The XYZ color **29.6383, 31.7972, 33.4295** is a light color, and the websafe version is hex **999999**. A complement of this color would be **30.0666, 31.0166, 34.9755**, and the grayscale version is **30.0013, 31.5637, 34.3729**.

A 20% lighter version of the original color is **58.3568, 62.3088, 66.0778**, and **12.2480, 13.2540, 13.7171** is the 20% darker color. If you saturate the color by 10%, you get **25.8289, 29.9683, 27.1977**, and if you desaturate by 10%, it is **33.9849, 33.8860, 40.5386**.

# Distribution





# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.6383, 31.7972, 33.4295 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 29.6383, 31.7972, 33.4295 by changing the saturation by 10% instead.





 29.6383, 31.7972,  
33.4295


 29.6383, 31.7972,  
33.4295


292.1550,  
310.1944, 332.2718

 19.7109, 21.2066,  
22.1819


 58.4803, 62.4930,  
66.1692

 12.2921, 13.2751,  
13.7910


 78.1256, 83.3671,  
88.4984

 7.0166, 7.6183,  
7.8384


101.7409,  
108.4378, 115.3585

 3.5189, 3.8517,  
3.9054

129.6915,  
138.0895, 147.1681

 1.4337, 1.5909,  
1.5736

162.3429,  
172.7066, 184.3456

 0.2801, 0.3515,  
0.2719


200.0604,


 0.0000, 0.0000,


212.6735, 227.3098


0.0000


243.2093,  
258.3747, 276.4790

 29.6383, 31.7972,  
33.4295


 29.6383, 31.7972,  
33.4295


 25.8289, 29.9683,  
27.1977


 33.9849, 33.8860,  
40.5386


 22.5335, 28.3853,  
21.8072

 38.8857, 36.2401,  
48.5550


 19.7307, 27.0390,  
17.2226


 44.3602, 38.8698,  
57.5098


 17.3969, 25.9180,  
13.4053


 50.4261, 41.7835,  
67.4321


 15.5066, 25.0100,  
10.3133


 57.1003, 44.9895,  
78.3494


 14.0316, 24.3015,  
7.9008

 64.3993, 48.4955,  
90.2886

 12.9408, 23.7775,  
6.1166

 70.8462, 51.5924,  
100.8321

 12.1985, 23.4209,  
4.9025

 11.7623, 23.2114,  
4.1891

# Harmonies

## Analogous

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



29.9248, 31.7972, 32.7695



29.6383, 31.7972, 33.4295



29.5084, 31.7972, 34.4192

# Triad

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



29.6383, 31.7972, 33.4295



30.1515, 31.7972, 36.7239



30.8857, 31.7972, 33.7740

# Complementary

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



29.6383, 31.7972, 33.4295



30.0666, 31.0166, 34.9755

# 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.



30.9476, 31.7972, 34.8251



29.6383, 31.7972, 33.4295



30.5217, 31.7972, 36.5425

# Square

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



29.6383, 31.7972, 33.4295



29.8031, 31.7972, 36.3326



30.8139, 31.7972, 35.8420



30.6454, 31.7972, 32.9655



# Rectangle

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



29.6383, 31.7972, 33.4295



29.5272, 31.7972, 35.1385



30.8139, 31.7972, 35.8420



30.9282, 31.7972, 34.1101

# Sweetspot

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



29.6392, 31.7986, 33.4302



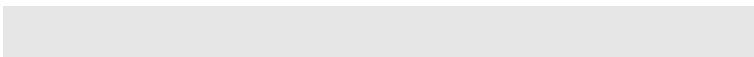
55.0201, 58.3290, 62.6571



30.3774, 32.1628, 33.4616



12.4639, 13.2075, 14.1992



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694



# Same Dimension

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



29.6392, 31.7986, 33.4302



53.4990, 57.5983, 60.1690



29.7963, 31.8614, 34.2575



6.6174, 7.1587, 7.4131



9.4147, 18.8293, 3.1382



0.1408, 0.2815, 0.0469



# Inverse Universe

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



30.0666, 31.0166, 34.9755



54.4105, 55.9308, 63.4643



29.9068, 30.9527, 34.1336



6.7539, 6.9090, 7.9066



15.6086, 7.4976, 25.5322

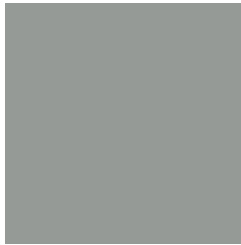


0.2334, 0.1121, 0.3817



# Previews

## White Background



This preview shows how the XYZ color 29.6383, 31.7972, 33.4295 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

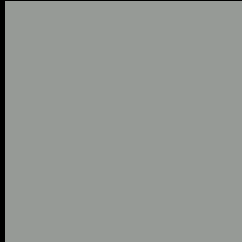
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 29.6383, 31.7972, 33.4295 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

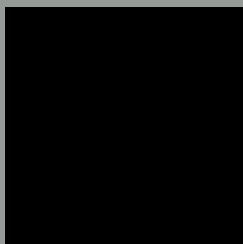
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

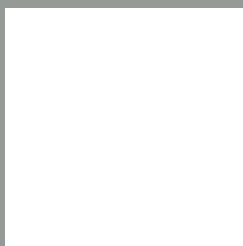
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.6383, 31.7972, 33.4295**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.6383, 31.7972, 33.4295.



This preview shows how white text looks on a background with the XYZ color 29.6383, 31.7972,



# 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

29.6383, 31.7972, 33.4295

### Protanopia

30.3634, 31.6943, 32.9511

### Deuteranopia

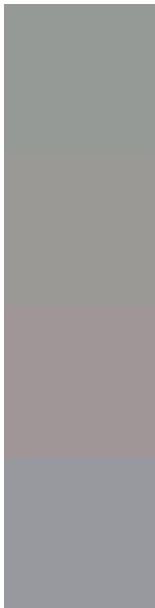
32.3243, 31.7390, 33.7007



## Tritanopia

30.8780, 31.8122, 39.6349

# Trichromacy



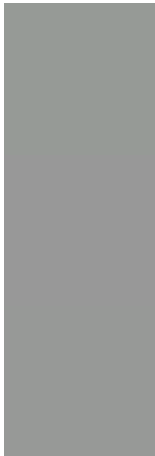
**Original Color**  
29.6383, 31.7972, 33.4295

**Protanomaly**  
30.1425, 31.8224, 32.9874

**Deuteranomaly**  
31.1902, 31.6241, 33.7383

**Tritanomaly**  
30.4117, 31.8650, 37.3486

# Monochromacy



**Original Color**  
29.6383, 31.7972, 33.4295

**Achromatopsia**  
29.8446, 31.3989, 34.1934

**Achromatomaly**  
29.7396, 31.5961, 33.8094

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.6383, 31.7972, 33.4295 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(150, 154, 150) looks like.

```
.text, #text, p{  
    color:rgb(150, 154, 150)  
}
```

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(150, 154, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 154, 150) }
```

## Border

The CSS property to change the border of an element to XYZ 29.6383, 31.7972, 33.4295 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(150, 154, 150) }
```



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

```
.border{ border-color:rgb(150, 154, 150) }
```

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

Here you see how a box with a 4 pixel rgb(150, 154, 150) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 154, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 154, 150);  
box-shadow:4px 4px 4px 4px rgb(150, 154,  
150) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.6383, 31.7972, 33.4295 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 154, 150) }
```

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

```
.background{ background-color: rgb(150,  
154, 150) }
```

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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