

# Converting Colors

XYZ(28.8362, 30.3380, 33.0380)

Have a look what the booklet for  
XYZ(28.8362, 30.3380, 33.0380)  
contains.

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# Color

**XYZ(28.9890, 30.4987,  
33.2131)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	969696
RGB	150, 150, 150
RGB Percent	59%, 59%, 59%
CMY	0.4118, 0.4118, 0.4118
CMYK	0.00, 0.00, 0.00, 0.41
HSL	125°, 0%, 59%
HSV	125°, 0%, 59%
XYZ	28.9890, 30.4987, 33.2131
YIQ	150.0000, -0.0000, -0.0000

# Conversions

## Conversions Part 2

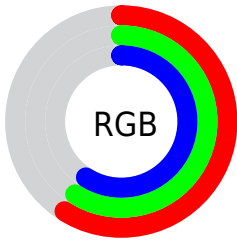
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	150, 150, 150
Decimal	9868950
CIE Lab	62.08, 0.00, -0.01
CIE LCh	62, 0.008, 296.381
Yxy	30.4987, 0.3127, 0.3290
Android (android.graphics.Color)	4288059030 (0xFF969696)
YUV	150.0000, 0.0000, 0.0000
Hunter-Lab	55.2256, -2.9467, 3.0005

# Details

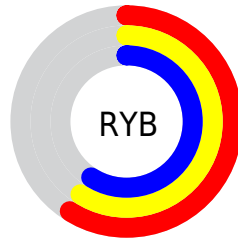
The XYZ color **28.9890, 30.4987, 33.2131** is a light color, and the websafe version is hex **999999**. A complement of this color would be **28.9901, 30.4995, 33.2147**, and the grayscale version is **28.9901, 30.4999, 33.2143**.

A 20% lighter version of the original color is **57.3938, 60.3827, 65.7568**, and **11.8596, 12.4772, 13.5877** is the 20% darker color. If you saturate the color by 10%, you get **25.3553, 28.7474, 27.5713**, and if you desaturate by 10%, it is **33.1092, 32.4873, 39.5645**.

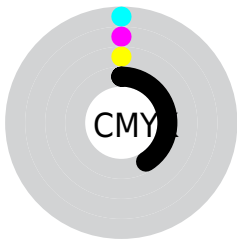
# Distribution



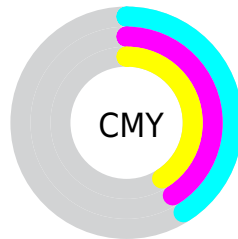
- Red (59%)
- Green (59%)
- Blue (59%)



- Red (59%)
- Yellow (59%)
- Blue (59%)



- Cyan (0%)
- Magenta (0%)
- Yellow (0%)
- Black (41%)



- Cyan (41%)
- Magenta (41%)
- Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.9890, 30.4987, 33.2131 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 28.9890, 30.4987, 33.2131 by changing the saturation by 10% instead.



■ 28.9890, 30.4987,  
33.2131

■ 28.9890, 30.4987,  
33.2131

289.1582,  
304.2221, 331.2703

■ 19.2167, 20.2174,  
22.0173

■ 57.4573, 60.4500,  
65.8279

■ 11.9319, 12.5532,  
13.6712

■ 76.8840, 80.8887,  
88.0840

■ 6.7692, 7.1216,  
7.7562

100.2596,  
105.4821, 114.8640

■ 3.3632, 3.5383,  
3.8538

127.9495,  
134.6145, 146.5863

■ 1.3486, 1.4188,  
1.5455

160.3189,  
168.6703, 183.6696

■ 0.2192, 0.2305,  
0.2515

197.7332,

■ 0.0000, 0.0000,

208.0339, 226.5323

0.0000

240.5579,  
253.0897, 275.5930

■ 28.9890, 30.4987,  
33.2131

■ 28.9890, 30.4987,  
33.2131

■ 25.3553, 28.7474,  
27.5713

■ 33.1092, 32.4873,  
39.5645

■ 22.1875, 27.2209,  
22.6125

■ 37.7302, 34.7176,  
46.6468

■ 19.4677, 25.9112,  
18.3113

■ 42.8690, 37.1986,  
54.4829

■ 17.1756, 24.8084,  
14.6402

■ 48.5409, 39.9378,  
63.0943

■ 15.2894, 23.9020,  
11.5696

■ 54.7607, 42.9425,  
72.5015

■ 13.7853, 23.1805,  
9.0676

■ 61.5426, 46.2195,  
82.7240

■ 12.6371, 22.6309,  
7.0991

■ 68.8990, 49.7747,  
93.7810

■ 11.8154, 22.2391,  
5.6255

■ 70.1969, 50.2939,  
100.6156

■ 11.2858, 21.9882,  
4.6028

# Harmonies

## Analogous

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



28.9880, 30.4987, 33.2137



28.9890, 30.4987, 33.2131



28.9898, 30.4987, 33.2111

# Triad

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



28.9890, 30.4987, 33.2131



28.9892, 30.4987, 33.2031



28.9861, 30.4987, 33.2075

# Complementary

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



28.9890, 30.4987, 33.2131



28.9901, 30.4995, 33.2147

# 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.



28.9864, 30.4987, 33.2047



28.9890, 30.4987, 33.2131



28.9882, 30.4987, 33.2021

# Square

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



28.9890, 30.4987, 33.2131



28.9899, 30.4987, 33.2053



28.9872, 30.4987, 33.2027



28.9863, 30.4987, 33.2105



# Rectangle

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



28.9890, 30.4987, 33.2131



28.9901, 30.4987, 33.2093



28.9872, 30.4987, 33.2027



28.9861, 30.4987, 33.2065

# Sweetspot

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



28.9899, 30.5000, 33.2138



51.1593, 53.8236, 58.6138



28.9903, 30.5003, 33.2137



11.3376, 11.9280, 12.9896



71.1368, 74.8414, 81.5023

# Same Dimension

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



28.9899, 30.5000, 33.2138



51.1593, 53.8236, 58.6138



28.9900, 30.5001, 33.2144



6.5000, 6.8385, 7.4471



9.1048, 18.1147, 3.3273



0.1151, 0.2232, 0.0600



# Inverse Universe

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



28.9901, 30.4995, 33.2147



51.1593, 53.8236, 58.6138



28.9900, 30.4994, 33.2141



6.5000, 6.8385, 7.4471



14.2556, 6.9073, 20.6246



0.1792, 0.0864, 0.2772



# Previews

## White Background



This preview shows how the XYZ color 28.9890, 30.4987, 33.2131 looks on a white background.

## Color Contrast Check

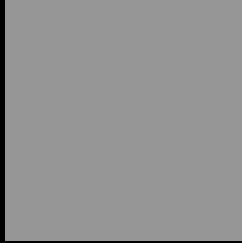
Large Text (above 18pt) WCAG AA × Fail

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 28.9890, 30.4987, 33.2131 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

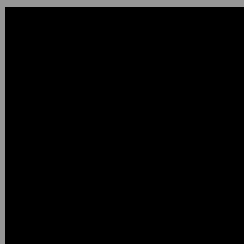
Any Text WCAG AAA ✓ Pass

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

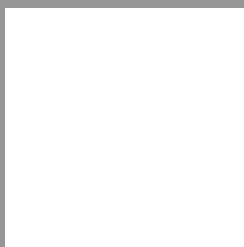


**XYZ 28.9890, 30.4987, 33.2131**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.9890, 30.4987, 33.2131.



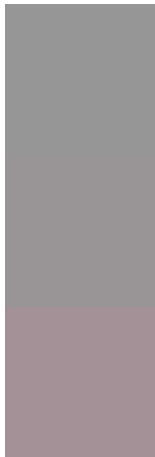
This preview shows how white text looks on a background with the XYZ color 28.9890, 30.4987,



# 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

28.9890, 30.4987, 33.2131

### Protanopia

29.3893, 30.4692, 33.1863

### Deuteranopia

31.0212, 30.3777, 33.5066



## Tritanopia

29.8840, 30.3933, 37.5491

# Trichromacy



## Original Color

28.9890, 30.4987, 33.2131

## Protanomaly

29.2014, 30.3723, 33.1775

## Deuteranomaly

30.3177, 30.4727, 33.5621

## Tritanomaly

29.5107, 30.4745, 35.7793

# Monochromacy



## Original Color

28.9890, 30.4987, 33.2131

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

28.9890, 30.4987, 33.2131

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.9890, 30.4987, 33.2131 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, 150, 150)` looks like.

```
.text, #text, p{  
    color:rgb(150, 150, 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, 150, 150) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 28.9890, 30.4987, 33.2131 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, 150, 150) }
```

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

```
.border{ border-color:rgb(150, 150, 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, 150, 150)` colored shadow looks like.

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



# Background

The CSS property to change the background color of an element to XYZ 28.9890, 30.4987, 33.2131 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(150,  
150, 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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