

# Converting Colors

XYZ(27.9014, 29.3544, 31.9670)

Have a look what the booklet for  
XYZ(27.9014, 29.3544, 31.9670)  
contains.

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# Color

**XYZ(27.7328, 29.1771,  
31.7738)**

# Conversions

## Conversions Part 1

Format	Color
Hex	939393
RGB	147, 147, 147
RGB Percent	58%, 58%, 58%
CMY	0.4235, 0.4235, 0.4235
CMYK	0.00, 0.00, 0.00, 0.42
HSL	122°, 0%, 58%
HSV	122°, 0%, 58%
XYZ	27.7328, 29.1771, 31.7738
YIQ	147.0000, -0.0000, 0.0000

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	147, 147, 147
Decimal	9671571
CIE Lab	60.94, 0.00, -0.01
CIE LCh	61, 0.008, 296.206
Yxy	29.1771, 0.3127, 0.3290
Android (android.graphics.Color)	4287861651 (0xFF939393)
YUV	147.0000, 0.0000, 0.0000
Hunter-Lab	54.0158, -2.8823, 2.9349

# Details

The XYZ color **27.7328, 29.1771, 31.7738** is a light color, and the websafe version is hex **999999**. A complement of this color would be **27.7339, 29.1778, 31.7754**, and the grayscale version is **27.7339, 29.1782, 31.7751**.

A 20% lighter version of the original color is **55.5167, 58.4078, 63.6061**, and **11.3621, 11.9538, 13.0177** is the 20% darker color. If you saturate the color by 10%, you get **24.2135, 27.4850, 26.1291**, and if you desaturate by 10%, it is **31.7292, 31.1008, 38.1652**.

# Distribution



Red (58%)

Green (58%)

Blue (58%)



Red (58%)

Yellow (58%)

Blue (58%)



Cyan (0%)

Magenta (0%)

Yellow (0%)

Black (42%)



Cyan (42%)

Magenta (42%)

Yellow (42%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.7328, 29.1771, 31.7738 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 27.7328, 29.1771, 31.7738 by changing the saturation by 10% instead.



■ 27.7328, 29.1771,  
31.7738

■ 27.7328, 29.1771,  
31.7738

283.2912,  
298.0496, 324.5485

■ 18.2638, 19.2148,  
20.9254

■ 55.4692, 58.3583,  
63.5501

■ 11.2404, 11.8256,  
12.8788

■ 74.4673, 78.3461,  
85.3151

■ 6.2972, 6.6250,  
7.2154

97.3724, 102.4445,  
111.5560

■ 3.0690, 3.2287,  
3.5167

124.5499,  
131.0379, 142.6914

■ 1.1904, 1.2523,  
1.3641

156.3652,  
164.5107, 179.1398

■ 0.0987, 0.1038,  
0.1135

193.1836,

■ 0.0000, 0.0000,

203.2474, 221.3197

0.0000

235.3705,  
247.6322, 269.6498

■ 27.7328, 29.1771,  
31.7738

■ 27.7328, 29.1771,  
31.7738

■ 24.2135, 27.4850,  
26.1291

■ 31.7292, 31.1008,  
38.1652

■ 21.1512, 26.0122,  
21.2020

■ 36.2170, 33.2605,  
45.3272

■ 18.5278, 24.7508,  
16.9643

■ 41.2130, 35.6651,  
53.2849

■ 16.3232, 23.6913,  
13.3854

■ 46.7324, 38.3219,  
62.0617

■ 14.5158, 22.8230,  
10.4322

■ 52.7898, 41.2380,  
71.6801

■ 13.0819, 22.1346,  
8.0687

■ 59.3993, 44.4202,  
82.1618

■ 11.9954, 21.6135,  
6.2554

■ 66.5744, 47.8749,  
93.5275

■ 11.2268, 21.2455,  
4.9479

■ 69.7243, 49.3486,  
100.4581

■ 10.7418, 21.0138,  
4.0948

# Harmonies

## Analogous

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



27.7318, 29.1771, 31.7743



27.7328, 29.1771, 31.7738



27.7335, 29.1771, 31.7719

# Triad

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



27.7328, 29.1771, 31.7738



27.7330, 29.1771, 31.7644



27.7301, 29.1771, 31.7685

# Complementary

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



27.7328, 29.1771, 31.7738



27.7339, 29.1778, 31.7754

# 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.



27.7304, 29.1771, 31.7659



27.7328, 29.1771, 31.7738



27.7321, 29.1771, 31.7635

# Square

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



27.7328, 29.1771, 31.7738



27.7337, 29.1771, 31.7665



27.7311, 29.1771, 31.7640



27.7302, 29.1771, 31.7713



# Rectangle

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



27.7328, 29.1771, 31.7738



27.7338, 29.1771, 31.7702



27.7311, 29.1771, 31.7640



27.7301, 29.1771, 31.7676

# Sweetspot

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



27.7336, 29.1784, 31.7744



49.6657, 52.2522, 56.9026



27.7341, 29.1786, 31.7744



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.



27.7336, 29.1784, 31.7744



49.6657, 52.2522, 56.9026



27.7337, 29.1784, 31.7750



6.5000, 6.8385, 7.4471



9.0686, 18.1002, 3.1368



0.1124, 0.2221, 0.0459



# Inverse Universe

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



27.7339, 29.1778, 31.7754



49.6657, 52.2522, 56.9026



27.7338, 29.1778, 31.7748



6.5000, 6.8385, 7.4471



14.6988, 7.0846, 22.9585



0.1818, 0.0875, 0.2912



# Previews

## White Background



This preview shows how the XYZ color 27.7328, 29.1771, 31.7738 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 27.7328, 29.1771, 31.7738 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

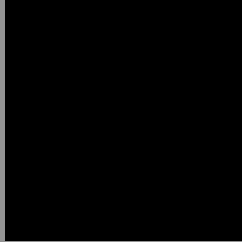
Any Text WCAG AAA × Fail

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

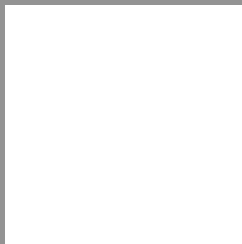


**XYZ 27.7328, 29.1771, 31.7738**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.7328, 29.1771, 31.7738.



This preview shows how white text looks on a background with the XYZ color 27.7328, 29.1771,



# 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

27.7328, 29.1771, 31.7738

### Protanopia

28.1230, 29.1484, 31.7477

### Deuteranopia

29.7162, 29.0612, 32.0601



## Tritanopia

28.6056, 29.0747, 36.0026

# Trichromacy



## Original Color

27.7328, 29.1771, 31.7738

## Protanomaly

27.9398, 29.0539, 31.7391

## Deuteranomaly

29.0289, 29.1526, 32.1140

## Tritanomaly

28.2414, 29.1536, 34.2757

# Monochromacy



## Original Color

27.7328, 29.1771, 31.7738

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

27.7328, 29.1771, 31.7738

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.7328, 29.1771, 31.7738 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(147, 147, 147)` looks like.

```
.text, #text, p{  
    color:rgb(147, 147, 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(147, 147, 147) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 27.7328, 29.1771, 31.7738 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(147, 147, 147) }
```

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

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

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

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

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



# Background

The CSS property to change the background color of an element to XYZ 27.7328, 29.1771, 31.7738 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(147,  
147, 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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