

# Converting Colors

XYZ(33.4234, 32.9925, 72.5402)

Have a look what the booklet for  
XYZ(33.4234, 32.9925, 72.5402)  
contains.

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# Color

**XYZ(33.3760, 32.8677,  
72.2951)**

# Conversions

## Conversions Part 1

Format	Color
Hex	809ADC
RGB	128, 154, 220
RGB Percent	50%, 60%, 86%
CMY	0.4980, 0.3961, 0.1373
CMYK	0.42, 0.30, 0.00, 0.14
HSL	223°, 57%, 68%
HSV	223°, 42%, 86%
XYZ	33.3760, 32.8677, 72.2951
YIQ	153.7500, -36.6820, 15.0140

# Conversions

## Conversions Part 2

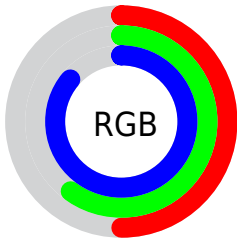
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	128, 148, 220
Decimal	8428252
CIE Lab	64.05, 7.69, -36.46
CIE LCh	64, 37.259, 281.915
Yxy	32.8677, 0.2409, 0.2372
Android (android.graphics.Color)	4286618332 (0xFF809ADC)
YUV	153.7500, 32.6613, -22.5828
Hunter-Lab	57.3304, 3.5892, -34.6350

# Details

The XYZ color **33.3760, 32.8677, 72.2951** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **52.7044, 55.3592, 28.3312**, and the grayscale version is **30.4797, 32.0670, 34.9209**.

A 20% lighter version of the original color is **60.3730, 62.5221, 103.4937**, and **14.3894, 13.8336, 37.5091** is the 20% darker color. If you saturate the color by 10%, you get **27.9828, 26.4718, 71.3454**, and if you desaturate by 10%, it is **39.8314, 40.3209, 73.3941**.

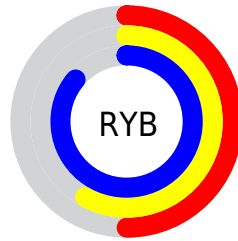
# Distribution



Red (50%)

Green (60%)

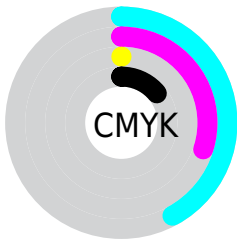
Blue (86%)



Red (50%)

Yellow (58%)

Blue (86%)

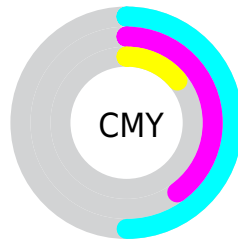


Cyan (42%)

Magenta (30%)

Yellow (0%)

Black (14%)



Cyan (50%)

Magenta (40%)

Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3760, 32.8677, 72.2951 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 33.3760, 32.8677, 72.2951 by changing the saturation by 10% instead.



■ 33.3760, 32.8677,  
72.2951

■ 33.3760, 32.8677,  
72.2951

308.9757,  
315.0532, 487.5732

■ 22.5753, 22.0251,  
52.9115

■ 64.3129, 64.1689,  
124.1876

■ 14.3992, 13.8754,  
37.3449

■ 85.1797, 85.3963,  
157.5336

■ 8.4824, 8.0340,  
25.1767

■ 110.1326,  
110.8542, 196.3707

■ 4.4595, 4.1167,  
15.9886

139.5370,  
140.9268, 241.1176

■ 1.9652, 1.7391,  
9.3618

173.7581,  
175.9986, 292.1927

■ 0.6143, 0.4488,  
4.8779

213.1614,

■ 0.0000, 0.0000,

216.4540, 350.0147

2.1183

258.1121,  
262.6774, 415.0020

■ 0.0000, 0.0000,  
0.6266

■ 0.0000, 0.0000,  
0.0000

■ 33.3760, 32.8677,  
72.2951

■ 33.3760, 32.8677,  
72.2951

■ 27.9828, 26.4718,  
71.3454

■ 39.8314, 40.3209,  
73.3941

■ 23.5882, 21.0789,  
70.5361

■ 47.4008, 48.8747,  
74.6462

■ 20.1269, 16.6350,  
69.8608

■ 56.1363, 58.5745,  
76.0580

■ 17.5237, 13.0787,  
69.3116

■ 66.0861, 69.4619,  
77.6351

■ 15.6900, 10.3401,  
68.8796

■ 77.2954, 81.5762,  
79.3826

■ 14.6504, 8.6313,  
68.6046

■ 87.9414, 93.9933,  
81.2182

■ 89.9184, 97.9474,  
81.8772

# Harmonies

## Analogous

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



28.2024, 32.8677, 71.0125



33.3760, 32.8677, 72.2951



38.4994, 32.8677, 61.9767

# Triad

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



33.3760, 32.8677, 72.2951



39.3916, 32.8677, 19.7079



22.5736, 32.8677, 27.5232

# Complementary

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



33.3760, 32.8677, 72.2951



52.7044, 55.3592, 28.3312

# 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.



24.9554, 32.8677, 18.2627



33.3760, 32.8677, 72.2951



34.4877, 32.8677, 14.7019

# Square

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



33.3760, 32.8677, 72.2951



42.2246, 32.8677, 30.1310



29.1967, 32.8677, 14.2602



22.3473, 32.8677, 42.1107



# Rectangle

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



33.3760, 32.8677, 72.2951



41.0455, 32.8677, 51.2393



29.1967, 32.8677, 14.2602



23.1351, 32.8677, 23.8035

# Sweetspot

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



33.3772, 32.8689, 72.2959



76.7653, 79.9999, 106.0033



44.2265, 59.6685, 60.1870



15.8290, 16.4575, 22.5923



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



33.3772, 32.8689, 72.2959



40.0688, 38.1540, 99.8603



32.8395, 26.8969, 71.1715



12.6368, 13.2134, 16.5365



8.6800, 5.2295, 40.2903



0.6347, 0.4836, 2.6343



# Inverse Universe

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



43.0682, 32.9885, 34.6704



55.5527, 39.2317, 39.5449



53.3277, 65.0342, 30.1658



13.2066, 13.1117, 14.3490



17.8766, 9.1517, 3.7303

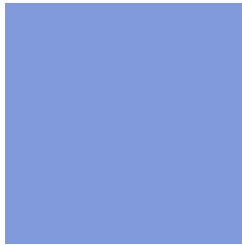


1.1947, 0.6075, 0.4341



# Previews

## White Background



This preview shows how the XYZ color 33.3760, 32.8677, 72.2951 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

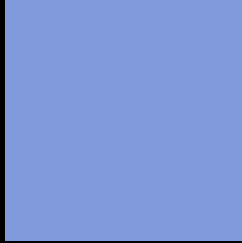
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.3760, 32.8677, 72.2951 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

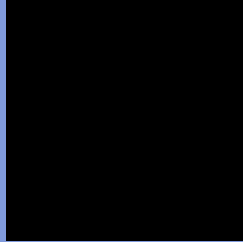
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.3760, 32.8677, 72.2951**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.3760, 32.8677, 72.2951.



This preview shows how white text looks on a background with the XYZ color 33.3760, 32.8677,



# 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

33.3760, 32.8677, 72.2951

### Protanopia

34.0089, 32.9653, 71.5883

### Deuteranopia

33.6696, 32.7751, 72.2618



## Tritanopia

28.1361, 33.0420, 45.9691

# Trichromacy



## Original Color

33.3760, 32.8677, 72.2951

## Protanomaly

33.6931, 32.8025, 71.5735

## Deuteranomaly

33.5154, 32.6956, 72.2546

## Tritanomaly

29.8310, 32.9405, 54.6551

# Monochromacy



## Original Color

33.3760, 32.8677, 72.2951

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

31.2685, 32.3453, 46.7147

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3760, 32.8677, 72.2951 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(128, 154, 220)` looks like.

```
.text, #text, p{  
    color:rgb(128, 154, 220)  
}
```

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(128, 154, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 154, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3760, 32.8677, 72.2951 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(128, 154, 220) }
```



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

```
.border{ border-color:rgb(128, 154, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 154, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 154, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 154, 220);  
box-shadow:4px 4px 4px 4px rgb(128, 154,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3760, 32.8677, 72.2951 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 154, 220) }
```

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

```
.background{ background-color: rgb(128,  
154, 220) }
```

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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