

# Converting Colors

XYZ(23.3971, 24.0382, 27.6718)

Have a look what the booklet for  
XYZ(23.3971, 24.0382, 27.6718)  
contains.

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# Color

**XYZ(23.3643, 23.9575,  
27.8189)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	89858B
RGB	137, 133, 139
RGB Percent	54%, 52%, 55%
CMY	0.4627, 0.4784, 0.4549
CMYK	0.01, 0.04, 0.00, 0.45
HSL	280°, 3%, 53%
HSV	280°, 4%, 55%
XYZ	23.3643, 23.9575, 27.8189
YIQ	134.8800, 0.4580, 2.7140

# Conversions

## Conversions Part 2

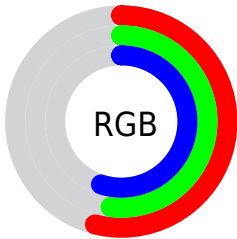
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	137, 133, 139
Decimal	9012619
CIE <sub>Lab</sub>	56.05, 2.67, -2.69
CIE <sub>LCh</sub>	56, 3.795, 314.809
Yxy	23.9575, 0.3109, 0.3188
Android (android.graphics.Color)	4287202699 (0xFF89858B)
YUV	134.8800, 2.0312, 1.8592
Hunter-Lab	48.9464, -0.4502, 0.5647

# Details

The XYZ color **23.3643, 23.9575, 27.8189** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **23.4587, 25.3102, 25.8404**, and the grayscale version is **22.9778, 24.1745, 26.3260**.

A 20% lighter version of the original color is **48.3085, 49.8707, 56.9491**, and **8.9040, 9.0882, 10.7361** is the 20% darker color. If you saturate the color by 10%, you get **20.8427, 20.0175, 27.1917**, and if you desaturate by 10%, it is **26.1718, 28.4201, 28.5326**.

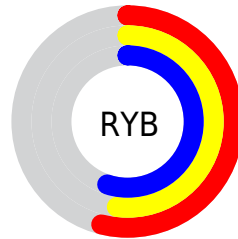
# Distribution



Red (54%)

Green (52%)

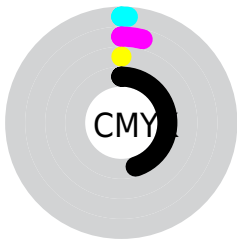
Blue (55%)



Red (54%)

Yellow (52%)

Blue (55%)

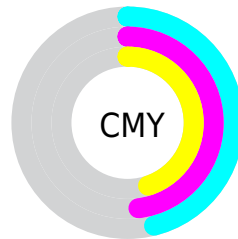


Cyan (1%)

Magenta (4%)

Yellow (0%)

Black (45%)



Cyan (46%)

Magenta (48%)

Yellow (45%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.3643, 23.9575, 27.8189 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 23.3643, 23.9575, 27.8189 by changing the saturation by 10% instead.



■ 23.3643, 23.9575,  
27.8189

■ 23.3643, 23.9575,  
27.8189

262.0912,  
272.6055, 305.4852

■ 14.9849, 15.3021,  
17.9513

■ 48.4531, 49.9608,  
57.2148

■ 8.8950, 9.0317,  
10.7460

■ 65.8932, 68.0776,  
77.5802

■ 4.7293, 4.7619,  
5.7843

■ 87.0842, 90.1168,  
102.2820

■ 2.1225, 2.1082,  
2.6477

112.3916,  
116.4631, 131.7387

■ 0.7014, 0.6692,  
0.9169

142.1806,  
147.5007, 166.3688

■ 0.0000, 0.0000,  
0.0000

176.8166,

183.6140, 206.5909

216.6650,  
225.1875, 252.8235

■ 23.3643, 23.9575,  
27.8189

■ 23.3643, 23.9575,  
27.8189

■ 20.8427, 20.0175,  
27.1917

■ 26.1718, 28.4201,  
28.5326

■ 18.5946, 16.5772,  
26.6461

■ 29.2728, 33.4209,  
29.3345

■ 16.6099, 13.6165,  
26.1792

■ 32.6772, 38.9788,  
30.2278

■ 14.8770, 11.1126,  
25.7873

■ 36.3936, 45.1108,  
31.2155

■ 13.3833, 9.0412,  
25.4662

■ 40.4307, 51.8332,  
32.3003

12.1149, 7.3752,  
25.2115

44.7963, 59.1615,  
33.4847

11.0567, 6.0848,  
25.0182

49.4983, 67.1107,  
34.7713

10.1911, 5.1357,  
24.8806

54.5443, 75.6954,  
36.1623

9.4961, 4.4844,  
24.7915

58.9431, 82.9330,  
37.3275

# Harmonies

## Analogous

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



22.9849, 23.9575, 28.4660



23.3643, 23.9575, 27.8189



23.5861, 23.9575, 26.7172

# Triad

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



23.3643, 23.9575, 27.8189



22.9903, 23.9575, 23.8457



21.9733, 23.9575, 26.7015

# Complementary

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



23.3643, 23.9575, 27.8189



23.4587, 25.3102, 25.8404

# 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.



21.9747, 23.9575, 25.4641



23.3643, 23.9575, 27.8189



22.5582, 23.9575, 23.8418

# Square

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



23.3643, 23.9575, 27.8189



23.3683, 23.9575, 24.4367



22.1876, 23.9575, 24.4259



22.1837, 23.9575, 27.8071



# Rectangle

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



23.3643, 23.9575, 27.8189



23.6129, 23.9575, 25.8857



22.1876, 23.9575, 24.4259



21.9491, 23.9575, 26.2866

# Sweetspot

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



23.3650, 23.9585, 27.8194



43.4403, 45.4315, 50.2226



23.0119, 24.2074, 27.8861



10.0173, 10.4806, 11.5744



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



23.3650, 23.9585, 27.8194



41.4651, 42.3111, 49.7244



23.6304, 24.1029, 27.4901



5.2910, 5.3863, 6.3666



8.2679, 3.7764, 22.3388



0.0705, 0.0331, 0.1491



# Inverse Universe

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



23.4089, 24.0143, 26.3241



41.5592, 42.4296, 46.5647



23.2024, 25.1708, 26.1543



5.3040, 5.4026, 5.9324



10.0683, 5.1375, 2.8642



0.0732, 0.0366, 0.0520



# Previews

## White Background



This preview shows how the XYZ color 23.3643, 23.9575, 27.8189 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 23.3643, 23.9575, 27.8189 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

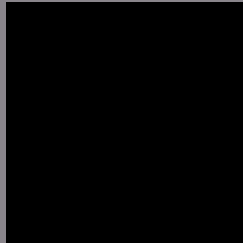
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 23.3643, 23.9575, 27.8189**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.3643, 23.9575, 27.8189.



This preview shows how white text looks on a background with the XYZ color 23.3643, 23.9575,



# 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

23.3643, 23.9575, 27.8189

### Protanopia

23.1770, 24.0652, 27.8496

### Deuteranopia

24.3933, 23.8785, 28.1343



## Tritanopia

23.6904, 23.8890, 29.3490

# Trichromacy

**Original Color**

23.3643, 23.9575, 27.8189

**Protanomaly**

23.3386, 24.1485, 27.8571

**Deuteranomaly**

24.0053, 23.8768, 28.1544

**Tritanomaly**

23.6150, 23.8588, 28.9517

# Monochromacy

**Original Color**

23.3643, 23.9575, 27.8189

**Achromatopsia**

23.0288, 24.2281, 26.3844

**Achromatomaly**

23.1224, 24.0620, 26.7183

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.3643, 23.9575, 27.8189 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(137, 133, 139)` looks like.

```
.text, #text, p{  
    color:rgb(137, 133, 139)  
}
```

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(137, 133, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 133, 139) }
```

## Border

The CSS property to change the border of an element to XYZ 23.3643, 23.9575, 27.8189 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(137, 133, 139) }
```



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

```
.border{ border-color:rgb(137, 133, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 133, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 133, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 133, 139);  
box-shadow:4px 4px 4px 4px rgb(137, 133,  
139) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.3643, 23.9575, 27.8189 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 133, 139) }
```

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

```
.background{ background-color: rgb(137,  
133, 139) }
```

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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