

# Converting Colors

XYZ(23.8581, 23.9879, 32.4172)

Have a look what the booklet for  
XYZ(23.8581, 23.9879, 32.4172)  
contains.

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# Color

**XYZ(23.7480, 23.8554,  
32.2071)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	878496
RGB	135, 132, 150
RGB Percent	53%, 52%, 59%
CMY	0.4706, 0.4823, 0.4118
CMYK	0.10, 0.12, 0.00, 0.41
HSL	250°, 8%, 55%
HSV	250°, 12%, 59%
XYZ	23.7480, 23.8554, 32.2071
YIQ	134.9490, -3.9900, 6.2340

# Conversions

## Conversions Part 2

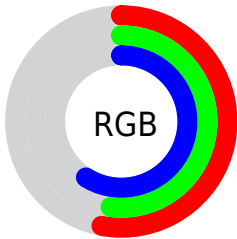
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 132, 150
Decimal	8881302
CIE Lab	55.94, 4.82, -9.22
CIE LCh	56, 10.404, 297.610
Yxy	23.8554, 0.2976, 0.2989
Android (android.graphics.Color)	4287071382 (0xFF878496)
YUV	134.9490, 7.4201, 0.0447
Hunter-Lab	48.8420, 1.3170, -4.9073

# Details

The XYZ color **23.7480, 23.8554, 32.2071** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **27.1046, 29.6823, 26.1315**, and the grayscale version is **22.9852, 24.1822, 26.3345**.

A 20% lighter version of the original color is **48.9871, 49.7489, 64.1473**, and **9.0917, 9.0187, 13.0660** is the 20% darker color. If you saturate the color by 10%, you get **19.9639, 19.0995, 31.4889**, and if you desaturate by 10%, it is **28.0622, 29.3200, 33.0349**.

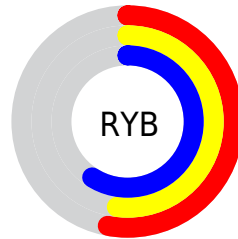
# Distribution



Red (53%)

Green (52%)

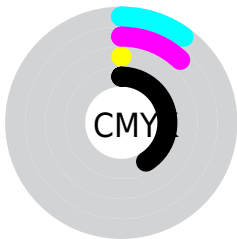
Blue (59%)



Red (53%)

Yellow (52%)

Blue (59%)

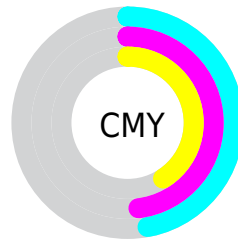


Cyan (10%)

Magenta (12%)

Yellow (0%)

Black (41%)



Cyan (47%)

Magenta (48%)

Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.7480, 23.8554, 32.2071 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 23.7480, 23.8554, 32.2071 by changing the saturation by 10% instead.



■ 23.7480, 23.8554,  
32.2071

■ 23.7480, 23.8554,  
32.2071

264.0081,  
272.0886, 326.5833

■ 15.2705, 15.2264,  
21.2536

■ 49.0763, 49.7941,  
64.2373

■ 9.0970, 8.9784,  
13.1165

■ 66.6579, 67.8726,  
86.1511

■ 4.8621, 4.7271,  
7.3771

■ 88.0049, 89.8698,  
112.5554

■ 2.2005, 2.0881,  
3.6170

113.4826,  
116.1699, 143.8687

■ 0.7430, 0.6579,  
1.4177

143.4564,  
147.1575, 180.5096

■ 0.0000, 0.0000,  
0.1555

178.2917,

■ 0.0000, 0.0000,

183.2169, 222.8967

0.0000

218.3538,  
224.7324, 271.4484

■ 23.7480, 23.8554,  
32.2071

■ 23.7480, 23.8554,  
32.2071

■ 19.9639, 19.0995,  
31.4889

■ 28.0622, 29.3200,  
33.0349

■ 16.6872, 15.0203,  
30.8743

■ 32.9239, 35.5177,  
33.9749

■ 13.8966, 11.5878,  
30.3588

■ 38.3520, 42.4754,  
35.0318

■ 11.5688, 8.7683,  
29.9373

■ 44.3642, 50.2177,  
36.2093

■ 9.6781, 6.5255,  
29.6040

■ 50.9774, 58.7681,  
37.5111

8.1964, 4.8187,  
29.3527

58.2075, 68.1491,  
38.9408

7.0924, 3.6022,  
29.1761

66.0702, 78.3823,  
40.5016

6.3296, 2.8223,  
29.0657

74.5803, 89.4887,  
42.1968

5.9058, 2.4086,  
29.0082

79.8026, 93.5889,  
42.7130

# Harmonies

## Analogous

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



22.5788, 23.8554, 33.0671



23.7480, 23.8554, 32.2071



24.6560, 23.8554, 29.6353

# Triad

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



23.7480, 23.8554, 32.2071



23.9184, 23.8554, 20.8372



20.4693, 23.8554, 25.7028

# Complementary

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



23.7480, 23.8554, 32.2071



27.1046, 29.6823, 26.1315

# 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.



20.8009, 23.8554, 22.6283



23.7480, 23.8554, 32.2071



22.7692, 23.8554, 19.9763

# Square

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



23.7480, 23.8554, 32.2071



24.7568, 23.8554, 23.0617



21.6326, 23.8554, 20.6027



20.7111, 23.8554, 29.1227



# Rectangle

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



23.7480, 23.8554, 32.2071



24.9766, 23.8554, 27.4023



21.6326, 23.8554, 20.6027



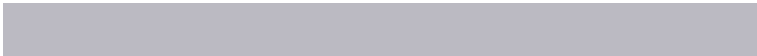
20.5171, 23.8554, 24.5972

# Sweetspot

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



23.7487, 23.8564, 32.2076



47.8609, 49.6318, 57.9786



25.5019, 28.0691, 32.9284



10.4852, 10.8450, 12.8255



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

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



23.7487, 23.8564, 32.2076



40.3088, 40.0811, 56.5332



25.2063, 24.6078, 32.2758



5.5842, 5.6766, 7.2711



4.9178, 2.0078, 24.0594



0.0772, 0.0333, 0.2953



# Inverse Universe

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



26.0961, 25.0941, 31.0729



45.1705, 42.6451, 54.1538



25.6029, 28.9081, 26.0613



5.9943, 5.8928, 7.0759



13.5122, 6.6099, 16.7100



0.1742, 0.0844, 0.2512



# Previews

## White Background



This preview shows how the XYZ color 23.7480, 23.8554, 32.2071 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 23.7480, 23.8554, 32.2071 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

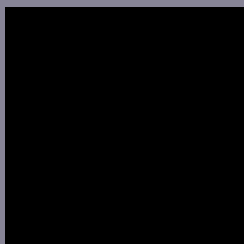
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 23.7480, 23.8554, 32.2071**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.7480, 23.8554, 32.2071.



This preview shows how white text looks on a background with the XYZ color 23.7480, 23.8554,



# 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

23.7480, 23.8554, 32.2071

### Protanopia

23.3335, 23.8347, 32.6489

### Deuteranopia

24.1351, 23.6562, 32.1482



## Tritanopia

23.2531, 23.8570, 29.7649

# Trichromacy



## Original Color

23.7480, 23.8554, 32.2071

## Protanomaly

23.4892, 23.9150, 32.6562

## Deuteranomaly

24.1026, 23.8379, 32.1850

## Tritanomaly

23.4074, 23.9187, 30.5772

# Monochromacy



## Original Color

23.7480, 23.8554, 32.2071

## Achromatopsia

23.0288, 24.2281, 26.3844

## Achromatomaly

23.2504, 24.0945, 28.2362

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.7480, 23.8554, 32.2071 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(135, 132, 150)` looks like.

```
.text, #text, p{  
    color:rgb(135, 132, 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(135, 132, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 132, 150) }
```

## Border

The CSS property to change the border of an element to XYZ 23.7480, 23.8554, 32.2071 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(135, 132, 150) }
```



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

```
.border{ border-color:rgb(135, 132, 150) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 132, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 132, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 132, 150);  
box-shadow:4px 4px 4px 4px rgb(135, 132,  
150) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.7480, 23.8554, 32.2071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 132, 150) }
```

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

```
.background{ background-color: rgb(135,  
132, 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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