

Converting Colors

XYZ(13.1307, 9.5387, 13.0047)

Have a look what the booklet for
XYZ(13.1307, 9.5387, 13.0047)
contains.

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Color

**XYZ(13.2213, 9.6243,
12.9652)**

Conversions

Conversions Part 1

Format	Color
Hex	804463
RGB	128, 68, 99
RGB Percent	50%, 27%, 39%
CMY	0.4980, 0.7333, 0.6118
CMYK	0.00, 0.47, 0.23, 0.50
HSL	329°, 31%, 38%
HSV	329°, 47%, 50%
XYZ	13.2213, 9.6243, 12.9652
YIQ	89.4740, 25.8090, 22.3610

Conversions

Conversions Part 2

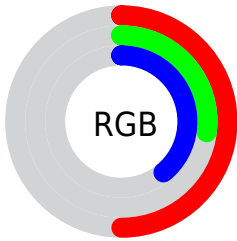
Format	Color
R_{YB}	128, 68, 99
Decimal	8406115
CIE Lab	37.16, 29.93, -6.74
CIE LCh	37, 30.682, 347.311
Yxy	9.6243, 0.3692, 0.2688
Android (android.graphics.Color)	4286596195 (0xFF804463)
YUV	89.4740, 4.6963, 33.7873
Hunter-Lab	31.0231, 21.7822, -3.0624

Details

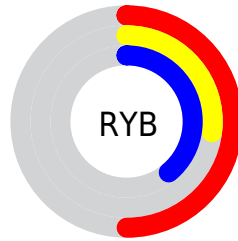
The XYZ color **13.2213, 9.6243, 12.9652** is a dark color, and the websafe version is hex **663366**. A complement of this color would be **12.2612, 17.5305, 14.0476**, and the grayscale version is **9.5868, 10.0861, 10.9838**.

A 20% lighter version of the original color is **31.2749, 25.1040, 32.0513**, and **3.9533, 2.3351, 3.6105** is the 20% darker color. If you saturate the color by 10%, you get **12.2455, 8.1280, 11.2361**, and if you desaturate by 10%, it is **14.3894, 11.4687, 14.8704**.

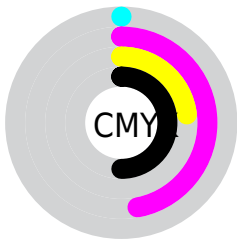
Distribution



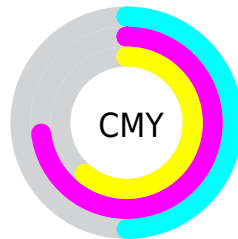
- Red (50%)
- Green (27%)
- Blue (39%)



- Red (50%)
- Yellow (27%)
- Blue (39%)



- Cyan (0%)
- Magenta (47%)
- Yellow (23%)
- Black (50%)





- Cyan (50%)
- Magenta (73%)
- Yellow (61%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 13.2213, 9.6243, 12.9652 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 13.2213, 9.6243, 12.9652 by changing the saturation by 10% instead.


 13.2213, 9.6243,
12.9652


 13.2213, 9.6243,
12.9652


205.9402,
187.9692, 221.8945


 7.6592, 5.1506,
7.2741


 31.2987, 25.0864,
31.9315


 3.9276, 2.3359,
3.5531

 44.5447, 36.8436,
46.0439


 1.6613, 0.7926,
1.3835

 61.0827, 51.7974,
63.8004

 0.4318, 0.0000,
0.1288

 81.2781, 70.3322,
85.6196

 0.0000, 0.0000,
0.0000

 105.4962, 92.8323,
111.9201

134.1023,

119.6823, 143.1204

167.4618,
151.2665, 179.6390

■ 13.2213, 9.6243,
12.9652

■ 13.2213, 9.6243,
12.9652

■ 12.2455, 8.1280,
11.2361

■ 14.3894, 11.4687,
14.8704

■ 11.4495, 6.9559,
9.6762

■ 15.7595, 13.6803,
16.9572

■ 10.8207, 6.0835,
8.2788

■ 17.3418, 16.2783,
19.2312

■ 10.3441, 5.4819,
7.0362

■ 19.1454, 19.2803,
21.6978

■ 9.9909, 5.0943,
5.9360

■ 21.1788, 22.7027,
24.3621

■ 9.8893, 4.9841,
5.6152

■ 23.4502, 26.5611,
27.2290

■ 25.9672, 30.8703,
30.3030

■ 28.7373, 35.6441,
33.5887

■ 31.7674, 40.8962,
37.0904

Harmonies

Analogous

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



12.1233, 9.6243, 19.3570



13.2213, 9.6243, 12.9652



13.1235, 9.6243, 7.6493

Triad

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



13.2213, 9.6243, 12.9652



8.0972, 9.6243, 3.3008



6.8754, 9.6243, 20.2745

Complementary

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



13.2213, 9.6243, 12.9652



12.2612, 17.5305, 14.0476

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.



6.0687, 9.6243, 13.9330



13.2213, 9.6243, 12.9652



6.7037, 9.6243, 4.8407

Square

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



13.2213, 9.6243, 12.9652



9.9788, 9.6243, 3.2002



6.0106, 9.6243, 8.3333



8.3639, 9.6243, 24.4645

Rectangle

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



13.2213, 9.6243, 12.9652



12.3927, 9.6243, 5.3070



6.0106, 9.6243, 8.3333



6.5251, 9.6243, 18.2402

Sweetspot

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



13.2216, 9.6248, 12.9654



31.3051, 29.9395, 34.9344



10.8936, 8.2347, 21.4374



7.1979, 6.7918, 7.9964



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



13.2216, 9.6248, 12.9654



21.4956, 14.2135, 19.6627



12.0437, 9.1536, 6.7629



4.4133, 4.3785, 4.9807



9.8067, 4.9424, 5.5716



0.0000, 0.0000, 0.0000

Inverse Universe

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



13.2216, 9.6248, 12.9654



21.4956, 14.2135, 19.6627



13.9341, 18.1997, 22.8572



4.4133, 4.3785, 4.9807



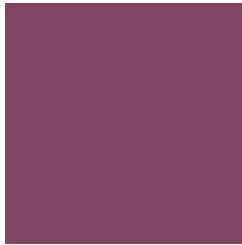
9.8067, 4.9424, 5.5716



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 13.2213, 9.6243, 12.9652 looks on a white background.

Color Contrast Check

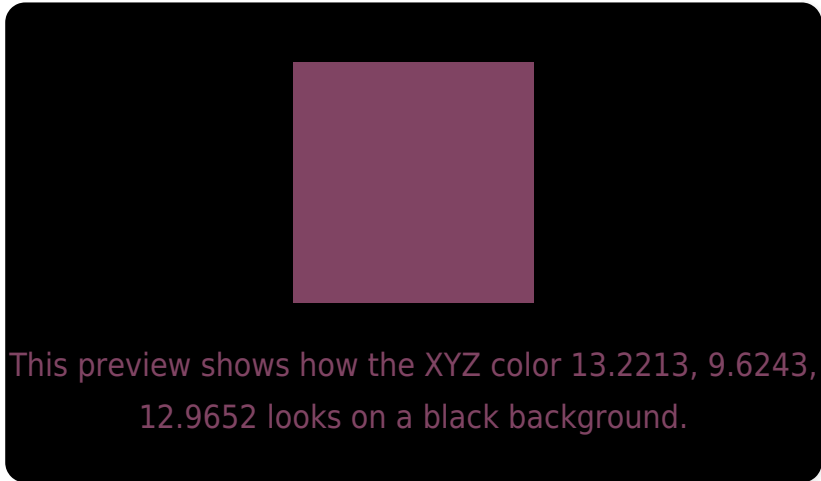
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

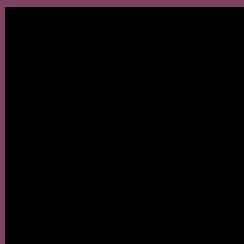
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.2213, 9.6243, 12.9652

Background



This preview shows how black text looks on a background with the XYZ color 13.2213, 9.6243, 12.9652.

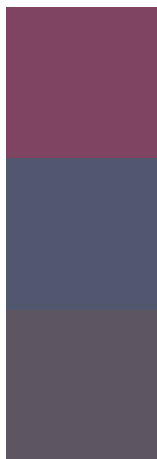


This preview shows how white text looks on a background with the XYZ color 13.2213, 9.6243,

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

13.2213, 9.6243, 12.9652

Protanopia

9.8125, 9.7801, 16.6998

Deuteranopia

9.9533, 9.8273, 12.4386



Tritanopia

12.2967, 9.6204, 8.4165

Trichromacy



Original Color

13.2213, 9.6243, 12.9652

Protanomaly

10.6681, 9.4515, 15.1720

Deuteranomaly

10.8975, 9.5192, 12.5723

Tritanomaly

12.6853, 9.6904, 10.0059

Monochromacy



Original Color

13.2213, 9.6243, 12.9652

Achromatopsia

9.4954, 9.9899, 10.8790

Achromatomaly

10.5117, 9.5587, 11.6469

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.2213, 9.6243, 12.9652 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, 68, 99)` looks like.

```
.text, #text, p{  
    color:rgb(128, 68, 99)  
}
```

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, 68, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 68, 99) }
```

Border

The CSS property to change the border of an element to XYZ 13.2213, 9.6243, 12.9652 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, 68, 99) }
```


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

```
.border{ border-color:rgb(128, 68, 99) }
```

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

Here you see how a box with a 4 pixel rgb(128, 68, 99) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 68, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 68, 99);  
box-shadow:4px 4px 4px 4px rgb(128, 68,  
99) }
```

Background

The CSS property to change the background color of an element to XYZ 13.2213, 9.6243, 12.9652 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 68, 99) }
```

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

```
.background{ background-color: rgb(128, 68,  
99) }
```

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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