

Converting Colors

XYZ(23.9823, 12.6834, 38.2302)

Have a look what the booklet for
XYZ(23.9823, 12.6834, 38.2302)
contains.

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Color

**XYZ(23.9751, 12.6696,
38.2276)**

Conversions

Conversions Part 1

Format	Color
Hex	A828A8
RGB	168, 40, 168
RGB Percent	66%, 16%, 66%
CMY	0.3412, 0.8431, 0.3412
CMYK	0.00, 0.76, 0.00, 0.34
HSL	300°, 62%, 41%
HSV	300°, 76%, 66%
XYZ	23.9751, 12.6696, 38.2276
YIQ	92.8640, 35.2000, 66.9440

Conversions

Conversions Part 2

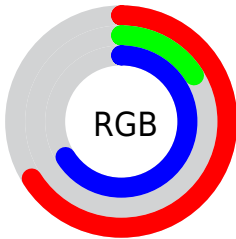
Format	Color
R _Y B	168, 40, 168
Decimal	11020456
CIE Lab	42.26, 64.79, -40.64
CIE LCh	42, 76.486, 327.902
Yxy	12.6696, 0.3202, 0.1692
Android (android.graphics.Color)	4289210536 (0xFFA828A8)
YUV	92.8640, 37.0420, 65.8943
Hunter-Lab	35.5944, 57.9410, -38.7601

Details

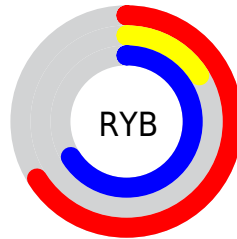
The XYZ color **23.9751, 12.6696, 38.2276** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **15.2613, 28.6101, 6.7262**, and the grayscale version is **10.2845, 10.8201, 11.7831**.

A 20% lighter version of the original color is **49.3757, 30.6649, 73.8375**, and **9.7766, 4.6825, 16.6082** is the 20% darker color. If you saturate the color by 10%, you get **23.5271, 11.7732, 38.0783**, and if you desaturate by 10%, it is **24.6702, 14.0594, 38.4594**.

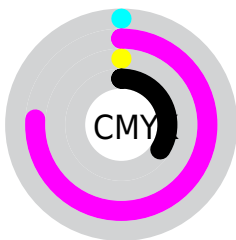
Distribution



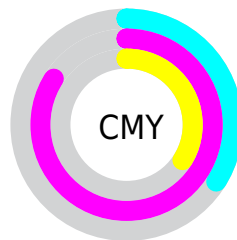
- Red (66%)
- Green (16%)
- Blue (66%)



- Red (66%)
- Yellow (16%)
- Blue (66%)



- Cyan (0%)
- Magenta (76%)
- Yellow (0%)
- Black (34%)





- Cyan (34%)
- Magenta (84%)
- Yellow (34%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 23.9751, 12.6696, 38.2276 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 23.9751, 12.6696, 38.2276 by changing the saturation by 10% instead.


 23.9751, 12.6696,
38.2276


 23.9751, 12.6696,
38.2276


265.1374,
208.7892, 353.9227


 15.4398, 7.2014,
25.8562


 49.4445, 30.7089,
73.6641

 9.2169, 3.5884,
16.4913


 67.1094, 44.0489,
97.5664


 4.9412, 1.4461,
9.7144


 88.5481, 60.7815,
126.1492

 2.2472, 0.2503,
5.1069

 114.1260, 81.2912,
159.8313

 0.7674, 0.0000,
2.2503

 144.2086,
105.9625, 199.0312

 0.0000, 0.0000,
0.7032

 179.1611,

 0.0000, 0.0000,

135.1796, 244.1674

0.0000

219.3489,
169.3271, 295.6584

■ 23.9751, 12.6696,
38.2276

■ 23.9751, 12.6696,
38.2276

■ 23.5271, 11.7732,
38.0783

■ 24.6702, 14.0594,
38.4594

■ 23.2861, 11.2912,
37.9979

■ 25.6392, 15.9974,
38.7825

■ 23.2165, 11.1521,
37.9747

■ 26.9072, 18.5334,
39.2052

■ 28.4960, 21.7109,
39.7348

■ 30.4252, 25.5694,
40.3779

■ 32.7132, 30.1453,
41.1406

■ 35.3767, 35.4724,
42.0285

■ 38.4317, 41.5822,
43.0469

■ 41.8929, 48.5046,
44.2006

Harmonies

Analogous

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



17.9599, 12.6696, 64.5865



23.9751, 12.6696, 38.2276



26.7240, 12.6696, 14.9809

Triad

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



23.9751, 12.6696, 38.2276



12.4493, 12.6696, 0.0000



4.7007, 12.6696, 34.4202

Complementary

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



23.9751, 12.6696, 38.2276



15.2613, 28.6101, 6.7262

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.



4.0536, 12.6696, 12.6735



23.9751, 12.6696, 38.2276



7.5920, 12.6696, 0.3684

Square

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



23.9751, 12.6696, 38.2276



18.8859, 12.6696, 0.5642



4.9191, 12.6696, 2.9118



7.0906, 12.6696, 61.4120

Rectangle

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



23.9751, 12.6696, 38.2276



25.8401, 12.6696, 6.1988



4.9191, 12.6696, 2.9118



4.3132, 12.6696, 25.9259

Sweetspot

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



23.9756, 12.6702, 38.2279



56.2916, 48.5612, 73.6313



8.7024, 4.7965, 37.5134



11.9746, 9.9952, 15.9502



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656

Same Dimension

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



23.9756, 12.6702, 38.2279



42.3749, 20.7280, 68.9919



19.4066, 10.8426, 14.1678



7.8419, 7.6666, 9.4848



17.5320, 8.4215, 28.6767



0.4266, 0.2049, 0.6977

Inverse Universe

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



23.9756, 12.6702, 38.2279



42.3749, 20.7280, 68.9919



17.3771, 29.4564, 17.8676



7.8419, 7.6666, 9.4848



17.5320, 8.4215, 28.6767



0.4266, 0.2049, 0.6977

Previews

White Background



This preview shows how the XYZ color 23.9751, 12.6696, 38.2276 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 × Fail

Black Background



This preview shows how the XYZ color 23.9751, 12.6696, 38.2276 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

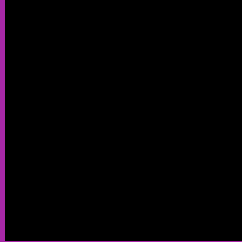
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 23.9751, 12.6696, 38.2276

Background



This preview shows how black text looks on a background with the XYZ color 23.9751, 12.6696, 38.2276.



This preview shows how white text looks on a background with the XYZ color 23.9751, 12.6696,

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

23.9751, 12.6696, 38.2276

Protanopia

15.4153, 13.0056, 60.0904

Deuteranopia

13.2956, 13.0395, 34.6170



Tritanopia

17.9606, 12.7312, 8.9079

Trichromacy



Original Color

23.9751, 12.6696, 38.2276



Protanomaly

14.0233, 9.9668, 51.0538



Deuteranomaly

15.0265, 11.1437, 35.5414



Tritanomaly

19.4922, 12.2743, 16.3808

Monochromacy



Original Color

23.9751, 12.6696, 38.2276



Achromatopsia

10.4043, 10.9462, 11.9204



Achromatomaly

13.5847, 10.2467, 19.0311

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.9751, 12.6696, 38.2276 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(168, 40, 168)` looks like.

```
.text, #text, p{  
    color:rgb(168, 40, 168)  
}
```

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(168, 40, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 40, 168) }
```

Border

The CSS property to change the border of an element to XYZ 23.9751, 12.6696, 38.2276 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(168, 40, 168) }
```


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

```
.border{ border-color:rgb(168, 40, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 40, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 40, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 40, 168);  
box-shadow:4px 4px 4px 4px rgb(168, 40,  
168) }
```

Background

The CSS property to change the background color of an element to XYZ 23.9751, 12.6696, 38.2276 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 40, 168) }
```

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

```
.background{ background-color: rgb(168, 40,  
168) }
```

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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