

Converting Colors

XYZ(22.0560, 12.1162, 32.3395)

Have a look what the booklet for
XYZ(22.0560, 12.1162, 32.3395)
contains.

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Color

**XYZ(21.9976, 12.1071,
32.1878)**

Conversions

Conversions Part 1

Format	Color
Hex	A32E9B
RGB	163, 46, 155
RGB Percent	64%, 18%, 61%
CMY	0.3608, 0.8196, 0.3922
CMYK	0.00, 0.72, 0.05, 0.36
HSL	304°, 56%, 41%
HSV	304°, 72%, 64%
XYZ	21.9976, 12.1071, 32.1878
YIQ	93.4090, 34.7430, 58.7030

Conversions

Conversions Part 2

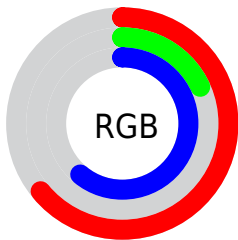
Format	Color
RYB	163, 46, 155
Decimal	10694299
CIELab	41.39, 59.63, -34.29
CIElCh	41, 68.787, 330.099
Yxy	12.1071, 0.3318, 0.1826
Android (android.graphics.Color)	4288884379 (0xFFA32E9B)
YUV	93.4090, 30.3644, 61.0313
Hunter-Lab	34.7953, 51.9562, -30.4903

Details

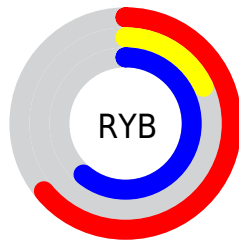
The XYZ color **21.9976, 12.1071, 32.1878** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **14.8903, 27.0420, 7.9257**, and the grayscale version is **10.4263, 10.9693, 11.9456**.

A 20% lighter version of the original color is **46.3019, 29.7258, 64.2700**, and **8.5116, 4.1051, 13.1757** is the 20% darker color. If you saturate the color by 10%, you get **21.3845, 11.0296, 31.5238**, and if you desaturate by 10%, it is **22.8542, 13.6695, 32.9374**.

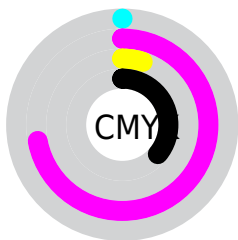
Distribution



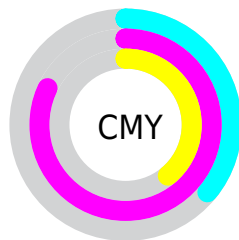
- Red (64%)
- Green (18%)
- Blue (61%)



- Red (64%)
- Yellow (18%)
- Blue (61%)



- Cyan (0%)
- Magenta (72%)
- Yellow (5%)
- Black (36%)




- Cyan (36%)
- Magenta (82%)
- Yellow (39%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 21.9976, 12.1071, 32.1878 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 21.9976, 12.1071, 32.1878 by changing the saturation by 10% instead.


 21.9976, 12.1071,
32.1878


 21.9976, 12.1071,
32.1878


255.1663,
205.1130, 326.4929


 13.9717, 6.8167,
21.2390


 46.2209, 29.6900,
64.2067


 8.1826, 3.3477,
13.1059


 63.1491, 42.7513,
86.1139


 4.2648, 1.3158,
7.3699


 83.7754, 59.1716,
112.5109

 1.8530, 0.1534,
3.6126

 108.4651, 79.3354,
143.8163

 0.5493, 0.0000,
1.4153

 137.5838,
103.6270, 180.4487

 0.0000, 0.0000,
0.1536

 171.4966,

 0.0000, 0.0000,

132.4309, 222.8266

0.0000

210.5690,
166.1315, 271.3685

■ 21.9976, 12.1071,
32.1878

■ 21.9976, 12.1071,
32.1878

■ 21.3845, 11.0296,
31.5238

■ 22.8542, 13.6695,
32.9374

■ 20.9844, 10.3773,
30.9349

■ 23.9775, 15.7642,
33.7802

■ 20.7599, 10.0488,
30.4886

■ 25.3894, 18.4347,
34.7234

■ 27.1093, 21.7198,
35.7736

■ 29.1549, 25.6548,
36.9366

■ 31.5423, 30.2723,
38.2179

■ 34.2869, 35.6026,
39.6226

■ 37.4030, 41.6745,
41.1555

■ 40.9041, 48.5150,
42.8210

Harmonies

Analogous

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



17.0248, 12.1071, 54.1467



21.9976, 12.1071, 32.1878



24.0252, 12.1071, 13.1350

Triad

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



21.9976, 12.1071, 32.1878



11.4908, 12.1071, 0.1795



5.0396, 12.1071, 32.3377

Complementary

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



21.9976, 12.1071, 32.1878



14.8903, 27.0420, 7.9257

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.



4.3293, 12.1071, 13.2303



21.9976, 12.1071, 32.1878



7.3331, 12.1071, 0.8280

Square

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



21.9976, 12.1071, 32.1878



16.9874, 12.1071, 0.8196



5.0300, 12.1071, 3.6778



7.3544, 12.1071, 54.2690

Rectangle

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



21.9976, 12.1071, 32.1878



23.0827, 12.1071, 5.8116



5.0300, 12.1071, 3.6778



4.6412, 12.1071, 25.0684

Sweetspot

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



21.9980, 12.1077, 32.1880



51.9640, 45.4638, 66.0121



9.0991, 5.3778, 35.2090



11.4497, 9.7846, 14.7026



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

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



21.9980, 12.1077, 32.1880



37.8380, 18.9880, 55.8273



18.2255, 10.5987, 12.3222



7.3433, 7.1938, 8.7943



16.1410, 7.8124, 23.7308



0.3450, 0.1665, 0.5292

Inverse Universe

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



21.9980, 12.1077, 32.1880



37.8380, 18.9880, 55.8273



17.1659, 27.9522, 19.9085



7.3433, 7.1938, 8.7943



16.1410, 7.8124, 23.7308



0.3450, 0.1665, 0.5292

Previews

White Background



This preview shows how the XYZ color 21.9976, 12.1071, 32.1878 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 21.9976, 12.1071, 32.1878 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

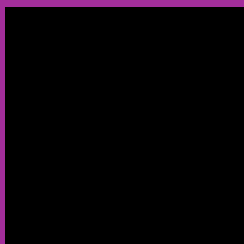
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 21.9976, 12.1071, 32.1878

Background



This preview shows how black text looks on a background with the XYZ color 21.9976, 12.1071, 32.1878.



This preview shows how white text looks on a background with the XYZ color 21.9976, 12.1071,

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

21.9976, 12.1071, 32.1878

Protanopia

14.8268, 12.5140, 56.2776

Deuteranopia

12.6146, 12.3784, 29.3282



Tritanopia

17.1745, 12.1391, 8.4591

Trichromacy



Original Color

21.9976, 12.1071, 32.1878



Protanomaly

14.0533, 10.1849, 46.5726



Deuteranomaly

14.4853, 10.9821, 30.2105



Tritanomaly

18.4279, 11.8440, 14.6795

Monochromacy



Original Color

21.9976, 12.1071, 32.1878



Achromatopsia

10.4043, 10.9462, 11.9204



Achromatomaly

13.2080, 10.2814, 17.8114

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.9976, 12.1071, 32.1878 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(163, 46, 155)` looks like.

```
.text, #text, p{  
    color:rgb(163, 46, 155)  
}
```

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(163, 46, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 46, 155) }
```

Border

The CSS property to change the border of an element to XYZ 21.9976, 12.1071, 32.1878 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(163, 46, 155) }
```


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

```
.border{ border-color:rgb(163, 46, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 46, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 46, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 46, 155);  
box-shadow:4px 4px 4px 4px rgb(163, 46,  
155) }
```

Background

The CSS property to change the background color of an element to XYZ 21.9976, 12.1071, 32.1878 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 46, 155) }
```

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

```
.background{ background-color: rgb(163, 46,  
155) }
```

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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