

Converting Colors

XYZ(21.7930, 12.0714, 40.2507)

Have a look what the booklet for
XYZ(21.7930, 12.0714, 40.2507)
contains.

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Color

**XYZ(21.7239, 12.0321,
40.2072)**

Conversions

Conversions Part 1

Format	Color
Hex	9932AC
RGB	153, 50, 172
RGB Percent	60%, 20%, 67%
CMY	0.4000, 0.8039, 0.3255
CMYK	0.11, 0.71, 0.00, 0.33
HSL	291°, 55%, 44%
HSV	291°, 71%, 67%
XYZ	21.7239, 12.0321, 40.2072
YIQ	94.7050, 22.2260, 59.7780

Conversions

Conversions Part 2

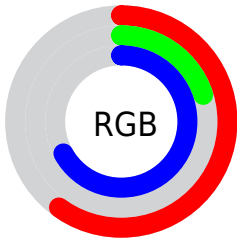
Format	Color
R_{YB}	153, 50, 172
Decimal	10039980
CIE _{Lab}	41.27, 58.86, -44.75
CIE _{LCh}	41, 73.943, 322.757
Yxy	12.0321, 0.2937, 0.1627
Android (android.graphics.Color)	4288230060 (0xFF9932AC)
YUV	94.7050, 38.1064, 51.1247
Hunter-Lab	34.6873, 51.0878, -44.4438

Details

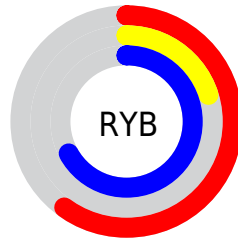
The XYZ color **21.7239, 12.0321, 40.2072** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **17.7829, 31.0009, 8.0646**, and the grayscale version is **10.7157, 11.2738, 12.2771**.

A 20% lighter version of the original color is **45.7360, 29.6111, 76.7038**, and **8.3668, 3.9286, 17.7701** is the 20% darker color. If you saturate the color by 10%, you get **20.6221, 10.5702, 39.9833**, and if you desaturate by 10%, it is **23.1143, 14.0533, 40.5242**.

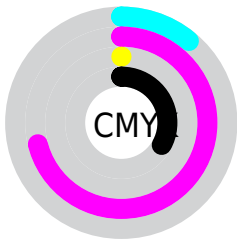
Distribution



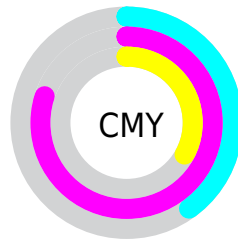
- Red (60%)
- Green (20%)
- Blue (67%)



- Red (60%)
- Yellow (20%)
- Blue (67%)



- Cyan (11%)
- Magenta (71%)
- Yellow (0%)
- Black (33%)



- Cyan (40%)
- Magenta (80%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.7239, 12.0321, 40.2072 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 21.7239, 12.0321, 40.2072 by changing the saturation by 10% instead.

■ 21.7239, 12.0321,
40.2072

■ 21.7239, 12.0321,
40.2072

253.7606,
204.6177, 362.5741

■ 13.7696, 6.7655,
27.3851

■ 45.7715, 29.5536,
76.7195

■ 8.0412, 3.3159,
17.6277

■ 62.5955, 42.5772,
101.2467

■ 4.1734, 1.2988,
10.5163

■ 83.1069, 58.9554,
130.5128

■ 1.8007, 0.1403,
5.6326

■ 107.6709, 79.0725,
164.9362

■ 0.5181, 0.0000,
2.5578

■ 136.6529,
103.3129, 204.9355

■ 0.0000, 0.0000,
0.8706

■ 170.4183,

■ 0.0000, 0.0000,

132.0609, 250.9292

0.0000

209.3324,
165.7011, 303.3359

■ 21.7239, 12.0321,
40.2072

■ 21.7239, 12.0321,
40.2072

■ 20.6221, 10.5702,
39.9833

■ 23.1143, 14.0533,
40.5242

■ 19.7744, 9.6003,
39.8408

■ 24.8195, 16.6877,
40.9429

■ 19.1613, 9.0178,
39.7606

■ 26.8645, 19.9847,
41.4715

■ 29.2713, 23.9881,
42.1173

■ 32.0600, 28.7379,
42.8872

■ 35.2491, 34.2712,
43.7871

■ 38.8560, 40.6226,
44.8229

■ 42.8970, 47.8245,
46.0001

■ 47.3874, 55.9078,
47.3236

Harmonies

Analogous

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



15.8902, 12.0321, 63.3027



21.7239, 12.0321, 40.2072



24.9614, 12.0321, 17.1732

Triad

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



21.7239, 12.0321, 40.2072



12.7814, 12.0321, 0.0000



4.3358, 12.0321, 28.1034

Complementary

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



21.7239, 12.0321, 40.2072



17.7829, 31.0009, 8.0646

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.



3.9704, 12.0321, 9.7293



21.7239, 12.0321, 40.2072



7.9035, 12.0321, 0.2072

Square

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



21.7239, 12.0321, 40.2072



18.8517, 12.0321, 0.8589



5.0505, 12.0321, 2.1415



6.2758, 12.0321, 53.2778

Rectangle

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



21.7239, 12.0321, 40.2072



24.6736, 12.0321, 7.6170



5.0505, 12.0321, 2.1415



4.0558, 12.0321, 20.7344

Sweetspot

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



21.7244, 12.0326, 40.2075



57.9191, 51.7181, 77.7357



10.9733, 8.0794, 40.0111



12.2817, 10.7159, 16.8087



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



21.7244, 12.0326, 40.2075



36.4983, 18.0898, 72.3738



22.2736, 12.7001, 22.8694



8.2127, 8.0840, 10.0802



14.2967, 6.7301, 29.5900



0.4301, 0.2039, 0.8247

Inverse Universe

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



19.2284, 11.4820, 6.8335



32.3344, 17.3990, 6.4103



17.9423, 30.9331, 14.8480



8.0542, 8.0349, 8.5963



12.8197, 6.5904, 1.4298



0.3718, 0.1894, 0.1196

Previews

White Background



This preview shows how the XYZ color 21.7239, 12.0321, 40.2072 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 21.7239, 12.0321, 40.2072 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 21.7239, 12.0321, 40.2072

Background



This preview shows how black text looks on a background with the XYZ color 21.7239, 12.0321, 40.2072.



This preview shows how white text looks on a background with the XYZ color 21.7239, 12.0321,

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

21.7239, 12.0321, 40.2072

Protanopia

14.6348, 12.4015, 56.8807

Deuteranopia

12.6840, 12.3883, 36.8446



Tritanopia

15.6637, 12.1440, 10.1128

Trichromacy



Original Color

21.7239, 12.0321, 40.2072



Protanomaly

13.7211, 10.1504, 49.9512



Deuteranomaly

14.1339, 10.8485, 37.9083



Tritanomaly

17.1931, 11.6516, 18.1724

Monochromacy



Original Color

21.7239, 12.0321, 40.2072



Achromatopsia

10.8771, 11.4435, 12.4620



Achromatomaly

13.5736, 10.7350, 20.0956

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.7239, 12.0321, 40.2072 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(153, 50, 172)` looks like.

```
.text, #text, p{  
    color:rgb(153, 50, 172)  
}
```

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(153, 50, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 50, 172) }
```

Border

The CSS property to change the border of an element to XYZ 21.7239, 12.0321, 40.2072 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(153, 50, 172) }
```


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

```
.border{ border-color:rgb(153, 50, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 50, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 50, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 50, 172);  
box-shadow:4px 4px 4px 4px rgb(153, 50,  
172) }
```

Background

The CSS property to change the background color of an element to XYZ 21.7239, 12.0321, 40.2072 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 50, 172) }
```

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

```
.background{ background-color: rgb(153, 50,  
172) }
```

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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