

Converting Colors

XYZ(23.9683, 12.9468, 33.1219)

Have a look what the booklet for
XYZ(23.9683, 12.9468, 33.1219)
contains.

XYZ(23.9629, 12.9327, 33.1316)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(23.9629, 12.9327,
33.1316)**

Conversions

Conversions Part 1

Format	Color
Hex	AC2B9D
RGB	172, 43, 157
RGB Percent	67%, 17%, 62%
CMY	0.3255, 0.8313, 0.3843
CMYK	0.00, 0.75, 0.09, 0.33
HSL	307°, 60%, 42%
HSV	307°, 75%, 67%
XYZ	23.9629, 12.9327, 33.1316
YIQ	94.5670, 40.2900, 62.8020

Conversions

Conversions Part 2

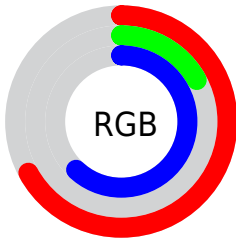
Format	Color
R_{YB}	172, 43, 157
Decimal	11283357
CIE _{Lab}	42.66, 63.01, -33.38
CIE _{LCh}	43, 71.310, 332.089
Yxy	12.9327, 0.3422, 0.1847
Android (android.graphics.Color)	4289473437 (0xFFAC2B9D)
YUV	94.5670, 30.7795, 67.9087
Hunter-Lab	35.9621, 56.0078, -29.4500

Details

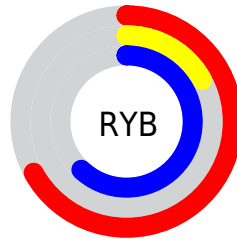
The XYZ color **23.9629, 12.9327, 33.1316** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **16.5131, 30.3246, 8.9868**, and the grayscale version is **10.6970, 11.2541, 12.2557**.

A 20% lighter version of the original color is **49.2682, 31.0792, 65.6895**, and **9.7523, 4.7329, 13.7641** is the 20% darker color. If you saturate the color by 10%, you get **23.2950, 11.8676, 32.0734**, and if you desaturate by 10%, it is **24.8982, 14.5274, 34.2929**.

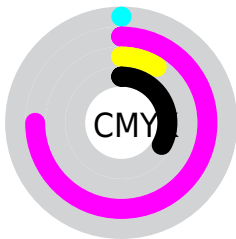
Distribution



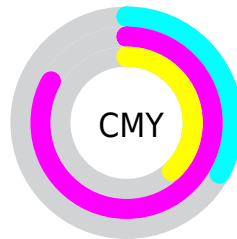
- Red (67%)
- Green (17%)
- Blue (62%)



- Red (67%)
- Yellow (17%)
- Blue (62%)



- Cyan (0%)
- Magenta (75%)
- Yellow (9%)
- Black (33%)



- Cyan (33%)
- Magenta (83%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.9629, 12.9327, 33.1316 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 23.9629, 12.9327, 33.1316 by changing the saturation by 10% instead.

■ 23.9629, 12.9327,
33.1316

■ 23.9629, 12.9327,
33.1316

265.0768,
210.4859, 330.8925

■ 15.4307, 7.3822,
21.9553

■ 49.4248, 31.1828,
65.6993

■ 9.2105, 3.7023,
13.6261

■ 67.0851, 44.6513,
87.9278

■ 4.9369, 1.5084,
7.7253

■ 88.5189, 61.5278,
114.6775

■ 2.2447, 0.2947,
3.8344

■ 114.0915, 82.1968,
146.3669

■ 0.7661, 0.0000,
1.5350

■ 144.1682,
107.0428, 183.4146

■ 0.0000, 0.0000,
0.2438

■ 179.1145,

■ 0.0000, 0.0000,

136.4500, 226.2391

0.0000

219.2955,
170.8029, 275.2588

■ 23.9629, 12.9327,
33.1316

■ 23.9629, 12.9327,
33.1316

■ 23.2950, 11.8676,
32.0734

■ 24.8982, 14.5274,
34.2929

■ 22.8566, 11.2575,
31.1053

■ 26.1289, 16.7089,
35.5665

■ 22.6808, 11.0377,
30.6405

■ 27.6812, 19.5289,
36.9612

■ 29.5779, 23.0332,
38.4847

■ 31.8398, 27.2632,
40.1439

■ 34.4858, 32.2571,
41.9454

■ 37.5339, 38.0503,
43.8950

■ 41.0005, 44.6762,
45.9983

■ 44.9015, 52.1662,
48.2608

Harmonies

Analogous

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



18.6860, 12.9327, 57.3908



23.9629, 12.9327, 33.1316



25.8895, 12.9327, 13.0236

Triad

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



23.9629, 12.9327, 33.1316



11.9170, 12.9327, 0.1603



5.4186, 12.9327, 36.5703

Complementary

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



23.9629, 12.9327, 33.1316



16.5131, 30.3246, 8.9868

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.



4.5530, 12.9327, 15.1952



23.9629, 12.9327, 33.1316



7.5537, 12.9327, 0.9186

Square

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



23.9629, 12.9327, 33.1316



17.8314, 12.9327, 0.7369



5.2020, 12.9327, 4.2345



8.0383, 12.9327, 60.2054

Rectangle

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



23.9629, 12.9327, 33.1316



24.6664, 12.9327, 5.5883



5.2020, 12.9327, 4.2345



4.9544, 12.9327, 28.5138

Sweetspot

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



23.9634, 12.9333, 33.1319



58.9421, 51.6802, 73.6515



9.9362, 5.5449, 39.5766



12.5529, 10.7487, 15.8269



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.



23.9634, 12.9333, 33.1319



41.6926, 20.7151, 57.0068



19.9251, 11.3180, 11.8669



8.2964, 8.1318, 9.8715



16.8912, 8.2190, 22.8701



0.4810, 0.2331, 0.6947

Inverse Universe

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



23.9634, 12.9333, 33.1319



41.6926, 20.7151, 57.0068



19.1639, 31.3849, 22.9457



8.2964, 8.1318, 9.8715



16.8912, 8.2190, 22.8701



0.4810, 0.2331, 0.6947

Previews

White Background



This preview shows how the XYZ color 23.9629, 12.9327, 33.1316 looks on a white background.

Color Contrast Check

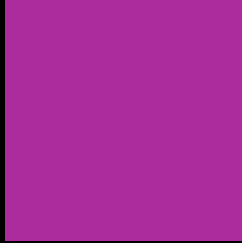
Large Text (above 18pt) WCAG AA ✓ Pass

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 23.9629, 12.9327, 33.1316 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

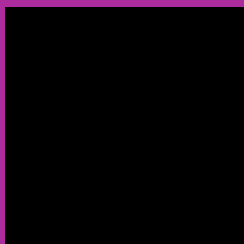
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 23.9629, 12.9327, 33.1316

Background



This preview shows how black text looks on a background with the XYZ color 23.9629, 12.9327, 33.1316.



This preview shows how white text looks on a background with the XYZ color 23.9629, 12.9327,

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

23.9629, 12.9327, 33.1316

Protanopia

15.8616, 13.3738, 60.1379

Deuteranopia

13.5582, 13.2711, 30.2808



Tritanopia

18.8676, 12.9208, 8.3370

Trichromacy



Original Color

23.9629, 12.9327, 33.1316



Protanomaly

14.8621, 10.6574, 48.8507



Deuteranomaly

15.6064, 11.6492, 31.1317



Tritanomaly

20.1549, 12.5729, 14.7291

Monochromacy



Original Color

23.9629, 12.9327, 33.1316



Achromatopsia

10.8771, 11.4435, 12.4620



Achromatomaly

14.0228, 10.6878, 18.4634

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.9629, 12.9327, 33.1316 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(172, 43, 157)` looks like.

```
.text, #text, p{  
    color:rgb(172, 43, 157)  
}
```

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(172, 43, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 43, 157) }
```

Border

The CSS property to change the border of an element to XYZ 23.9629, 12.9327, 33.1316 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(172, 43, 157) }
```


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

```
.border{ border-color:rgb(172, 43, 157) }
```

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

Here you see how a box with a 4 pixel rgb(172, 43, 157) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 43, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 43, 157);  
box-shadow:4px 4px 4px 4px rgb(172, 43,  
157) }
```

Background

The CSS property to change the background color of an element to XYZ 23.9629, 12.9327, 33.1316 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 43, 157) }
```

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

```
.background{ background-color: rgb(172, 43,  
157) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor