

Converting Colors

XYZ(29.8436, 13.9033, 68.3358)

Have a look what the booklet for
XYZ(29.8436, 13.9033, 68.3358)
contains.

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Color

**XYZ(29.7994, 13.8851,
68.1273)**

Conversions

Conversions Part 1

Format	Color
Hex	AC00DB
RGB	172, 0, 219
RGB Percent	67%, 0%, 86%
CMY	0.3255, 1.0000, 0.1412
CMYK	0.21, 1.00, 0.00, 0.14
HSL	287°, 100%, 43%
HSV	287°, 100%, 86%
XYZ	29.7994, 13.8851, 68.1273
YIQ	76.3940, 32.2130, 104.5730

Conversions

Conversions Part 2

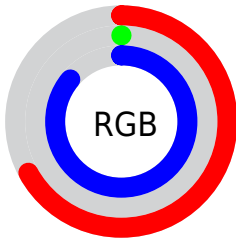
Format	Color
RYB	172, 0, 219
Decimal	11272411
CIELab	44.07, 80.76, -67.50
CIElCh	44, 105.251, 320.112
Yxy	13.8851, 0.2665, 0.1242
Android (android.graphics.Color)	4289462491 (0xFFAC00DB)
YUV	76.3940, 70.3048, 83.8465
Hunter-Lab	37.2627, 77.5386, -82.3158

Details

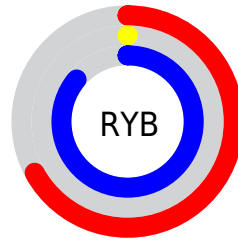
The XYZ color **29.7994, 13.8851, 68.1273** is a dark color, and the websafe version is hex **9900CC**. The color can be described as dark washed purple. A complement of this color would be **26.5043, 51.2678, 8.4990**, and the grayscale version is **6.8141, 7.1689, 7.8069**.

A 20% lighter version of the original color is **54.8184, 31.3553, 97.7707**, and **13.4209, 6.1551, 35.1310** is the 20% darker color. If you saturate the color by 10%, you get **29.7995, 13.8852, 68.1276**, and if you desaturate by 10%, it is **31.1352, 14.9971, 68.2718**.

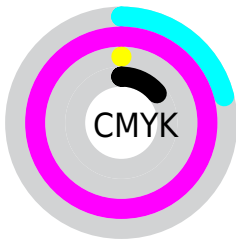
Distribution



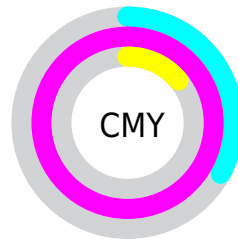
- Red (67%)
- Green (0%)
- Blue (86%)



- Red (67%)
- Yellow (0%)
- Blue (86%)



- Cyan (21%)
- Magenta (100%)
- Yellow (0%)
- Black (14%)





- Cyan (33%)
- Magenta (100%)
- Yellow (14%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 29.7994, 13.8851, 68.1273 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 29.7994, 13.8851, 68.1273 by changing the saturation by 10% instead.

 29.7994, 13.8851,
68.1273


 29.7994, 13.8851,
68.1273


292.8949,
216.5149, 472.5572


 19.8337, 8.0408,
49.5340

 58.7336, 32.8850,
118.1902


 12.3818, 4.1211,
34.6747


 78.4328, 46.8094,
150.4968


 7.0783, 1.7415,
23.1308


 102.1072, 64.1960,
188.2116

 3.5579, 0.4503,
14.4839

 130.1222, 85.4291,
231.7531

 1.4552, 0.0000,
8.3154

 162.8431,
110.8931, 281.5399

 0.2950, 0.0000,
4.2068

 200.6353,

 0.0000, 0.0000,

140.9725, 337.9905

1.7395

243.8641,
176.0516, 401.5234

■ 0.0000, 0.0000,
0.3876

■ 0.0000, 0.0000,
0.0000

■ 29.7994, 13.8851,
68.1273

■ 29.7994, 13.8851,
68.1273

■ 29.7995, 13.8852,
68.1276

■ 31.1352, 14.9971,
68.2718

■ 32.8304, 16.7742,
68.5255

■ 34.9922, 19.4291,
68.9240

■ 37.6803, 23.0809,
69.4872

40.9452, 27.8302,
70.2318

44.8313, 33.7649,
71.1725

49.3783, 40.9640,
72.3224

54.6225, 49.4999,
73.6936

60.5976, 59.4390,
75.2971

Harmonies

Analogous

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



19.5414, 13.8851, 112.8463



29.7994, 13.8851, 68.1273



36.2504, 13.8851, 24.4952

Triad

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



29.7994, 13.8851, 68.1273



16.1585, 13.8851, 0.0000



3.1192, 13.8851, 37.1526

Complementary

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



29.7994, 13.8851, 68.1273



26.5043, 51.2678, 8.4990

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.



2.8439, 13.8851, 8.5044



29.7994, 13.8851, 68.1273



8.4006, 13.8851, 0.0000

Square

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



29.7994, 13.8851, 68.1273



26.4431, 13.8851, 0.0000



4.2994, 13.8851, 0.5931



5.3330, 13.8851, 85.2352

Rectangle

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



29.7994, 13.8851, 68.1273



36.2289, 13.8851, 8.3836



4.2994, 13.8851, 0.5931



2.8478, 13.8851, 24.7417

Sweetspot

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



29.8001, 13.8856, 68.1276



69.5257, 57.5382, 102.0493



13.8213, 7.1844, 67.6763



14.2743, 11.3469, 21.6878



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



29.8001, 13.8856, 68.1276



41.9426, 19.5371, 96.1682



35.2954, 17.4931, 33.3936



13.3267, 13.1265, 16.4834



17.7652, 8.2825, 40.4007



1.2204, 0.5724, 2.6206

Inverse Universe

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



29.7269, 15.2657, 4.0700



41.9230, 21.5332, 5.5269



26.2028, 51.0117, 13.0309



13.1698, 13.0970, 14.1556



17.6595, 9.0648, 2.5868



1.1762, 0.6001, 0.3367

Previews

White Background



This preview shows how the XYZ color 29.7994, 13.8851, 68.1273 looks on a white background.

Color Contrast Check

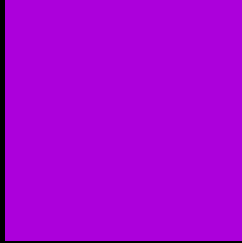
Large Text (above 18pt) WCAG AA ✓ Pass

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 29.7994, 13.8851, 68.1273 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

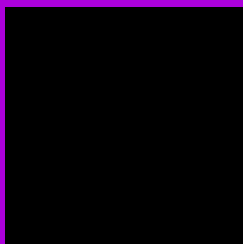
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 29.7994, 13.8851, 68.1273

Background



This preview shows how black text looks on a background with the XYZ color 29.7994, 13.8851, 68.1273.



This preview shows how white text looks on a background with the XYZ color 29.7994, 13.8851,

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

29.7994, 13.8851, 68.1273

Protanopia

17.1460, 14.4606, 66.8532

Deuteranopia

14.5479, 14.3992, 50.1567



Tritanopia

18.3964, 14.2006, 11.8966

Trichromacy



Original Color

29.7994, 13.8851, 68.1273



Protanomaly

16.4646, 9.8471, 66.6785



Deuteranomaly

14.6033, 9.4831, 55.7043



Tritanomaly

20.4508, 12.0409, 25.2910

Monochromacy



Original Color

29.7994, 13.8851, 68.1273



Achromatopsia

6.8694, 7.2272, 7.8704



Achromatomaly

11.5088, 7.0519, 21.1767

CSS Examples

Text

The CSS property to change the color of the text to XYZ 29.7994, 13.8851, 68.1273 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, 0, 219)` looks like.

```
.text, #text, p{  
    color:rgb(172, 0, 219)  
}
```

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, 0, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 0, 219) }
```

Border

The CSS property to change the border of an element to XYZ 29.7994, 13.8851, 68.1273 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, 0, 219) }
```


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

```
.border{ border-color:rgb(172, 0, 219) }
```

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

Here you see how a box with a 4 pixel rgb(172, 0, 219) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 0, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 0, 219);  
box-shadow:4px 4px 4px 4px rgb(172, 0,  
219) }
```

Background

The CSS property to change the background color of an element to XYZ 29.7994, 13.8851, 68.1273 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 0, 219) }
```

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

```
.background{ background-color: rgb(172, 0,  
219) }
```

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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