

Converting Colors

XYZ(12.8408, 5.9795, 29.5219)

Have a look what the booklet for
XYZ(12.8408, 5.9795, 29.5219)
contains.

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Color

**XYZ(12.8411, 5.9839,
29.3324)**

Conversions

Conversions Part 1

Format	Color
Hex	750096
RGB	117, 0, 150
RGB Percent	46%, 0%, 59%
CMY	0.5412, 1.0000, 0.4118
CMYK	0.22, 1.00, 0.00, 0.41
HSL	287°, 100%, 29%
HSV	287°, 100%, 59%
XYZ	12.8411, 5.9839, 29.3324
YIQ	52.0830, 21.5820, 71.4540

Conversions

Conversions Part 2

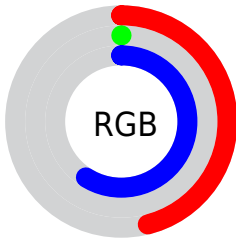
Format	Color
RYB	117, 0, 150
Decimal	7667862
CIELab	29.37, 60.99, -50.94
CIElCh	29, 79.469, 320.131
Yxy	5.9839, 0.2666, 0.1243
Android (android.graphics.Color)	4285857942 (0xFF750096)
YUV	52.0830, 48.2731, 56.9322
Hunter-Lab	24.4620, 50.8934, -53.9712

Details

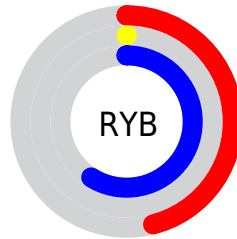
The XYZ color **12.8411, 5.9839, 29.3324** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **11.5338, 22.1362, 3.6650**, and the grayscale version is **3.2171, 3.3847, 3.6859**.

A 20% lighter version of the original color is **30.5063, 17.7985, 59.5852**, and **4.1912, 1.9060, 11.7023** is the 20% darker color. If you saturate the color by 10%, you get **12.8412, 5.9839, 29.3325**, and if you desaturate by 10%, it is **13.4635, 6.5585, 29.4106**.

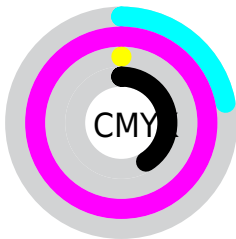
Distribution



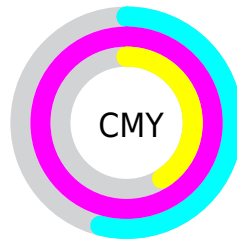
- Red (46%)
- Green (0%)
- Blue (59%)



- Red (46%)
- Yellow (0%)
- Blue (59%)



- Cyan (22%)
- Magenta (100%)
- Yellow (0%)
- Black (41%)



- Cyan (54%)
- Magenta (100%)
- Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8411, 5.9839, 29.3324 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 12.8411, 5.9839, 29.3324 by changing the saturation by 10% instead.

12.8411, 5.9839,
29.3324

12.8411, 5.9839,
29.3324

203.5550,
158.9318, 312.8900

7.3955, 2.8353,
19.0847

30.6218, 17.8977,
59.6533

3.7591, 1.0464,
11.5541

43.6875, 27.4317,
80.5635

1.5668, 0.0000,
6.3220

60.0240, 39.8630,
105.8650

0.3706, 0.0000,
2.9699

79.9966, 55.5758,
135.9762

0.0000, 0.0000,
1.0793


103.9706, 74.9548,
171.3158

0.0000, 0.0000,
0.0000

132.3115, 98.3842,

212.3023

 165.3845,
126.2484, 259.3541


 12.8411, 5.9839,
29.3324


 12.8411, 5.9839,
29.3324

 12.8412, 5.9839,
29.3325

 13.4635, 6.5585,
29.4106

 14.2241, 7.3863,
29.5303

 15.1813, 8.5836,
29.7110

 16.3580, 10.1960,
29.9602

 17.7737, 12.2623,
30.2844

■ 19.4457, 14.8168,
30.6893

■ 21.3895, 17.8905,
31.1802

■ 23.6195, 21.5118,
31.7616

■ 26.1489, 25.7069,
32.4380

Harmonies

Analogous

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



8.4230, 5.9839, 48.5947



12.8411, 5.9839, 29.3324



15.6177, 5.9839, 10.5457

Triad

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



12.8411, 5.9839, 29.3324



6.9605, 5.9839, 0.0000



1.3455, 5.9839, 16.0173

Complementary

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



12.8411, 5.9839, 29.3324



11.5338, 22.1362, 3.6650

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.



1.2264, 5.9839, 3.6703



12.8411, 5.9839, 29.3324



3.6194, 5.9839, 0.0000

Square

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



12.8411, 5.9839, 29.3324



11.3902, 5.9839, 0.0000



1.8532, 5.9839, 0.0000



2.3002, 5.9839, 36.7265

Rectangle

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



12.8411, 5.9839, 29.3324



15.6069, 5.9839, 3.6096



1.8532, 5.9839, 0.0000



1.2284, 5.9839, 10.6696

Sweetspot

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



12.8414, 5.9841, 29.3325



37.5297, 31.2236, 54.9700



6.1063, 3.4043, 29.1896



8.0180, 6.4432, 12.1059



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.8414, 5.9841, 29.3325



22.5081, 10.4811, 51.7580



15.3924, 7.6100, 15.4099



5.9118, 5.8455, 7.2864



10.6781, 4.9773, 24.3290



0.1555, 0.0737, 0.2989

Inverse Universe

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



12.8524, 6.5940, 2.0345



22.6262, 11.6146, 3.3000



11.2895, 21.9661, 5.6527



5.8499, 5.8350, 6.3159



10.6698, 5.4730, 1.7421



0.1400, 0.0707, 0.0707

Previews

White Background



This preview shows how the XYZ color 12.8411, 5.9839, 29.3324 looks on a white background.

Color Contrast Check

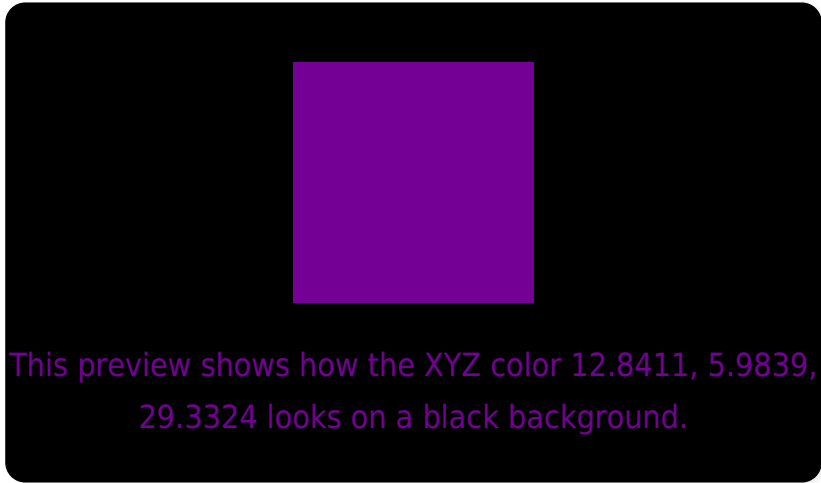
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

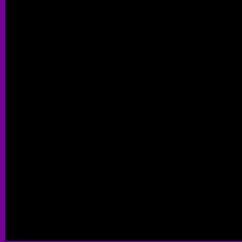
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8411, 5.9839, 29.3324

Background



This preview shows how black text looks on a background with the XYZ color 12.8411, 5.9839, 29.3324.



This preview shows how white text looks on a background with the XYZ color 12.8411, 5.9839,

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

12.8411, 5.9839, 29.3324

Protanopia

7.4566, 6.4869, 28.4629

Deuteranopia

6.4112, 6.4825, 21.6822



Tritanopia

8.1701, 6.4299, 5.5131

Trichromacy



Original Color

12.8411, 5.9839, 29.3324

Protanomaly

7.2799, 4.5285, 28.5074

Deuteranomaly

6.5281, 4.3528, 24.1630

Tritanomaly

9.0653, 5.4637, 11.4033

Monochromacy



Original Color

12.8411, 5.9839, 29.3324

Achromatopsia

3.2640, 3.4340, 3.7396

Achromatomaly

5.2858, 3.3288, 9.5964

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8411, 5.9839, 29.3324 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(117, 0, 150)` looks like.

```
.text, #text, p{  
    color:rgb(117, 0, 150)  
}
```

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(117, 0, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 0, 150) }
```

Border

The CSS property to change the border of an element to XYZ 12.8411, 5.9839, 29.3324 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(117, 0, 150) }
```


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

```
.border{ border-color:rgb(117, 0, 150) }
```

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

Here you see how a box with a 4 pixel rgb(117, 0, 150) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 0, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 0, 150);  
box-shadow:4px 4px 4px 4px rgb(117, 0,  
150) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8411, 5.9839, 29.3324 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 0, 150) }
```

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

```
.background{ background-color: rgb(117, 0,  
150) }
```

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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