

Converting Colors

XYZ(12.8903, 6.2662, 17.7244)

Have a look what the booklet for
XYZ(12.8903, 6.2662, 17.7244)
contains.

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Color

**XYZ(12.9429, 6.2946,
17.6723)**

Conversions

Conversions Part 1

Format	Color
Hex	850076
RGB	133, 0, 118
RGB Percent	52%, 0%, 46%
CMY	0.4784, 0.9999, 0.5373
CMYK	0.00, 1.00, 0.11, 0.48
HSL	307°, 100%, 26%
HSV	307°, 100%, 52%
XYZ	12.9429, 6.2946, 17.6723
YIQ	53.2190, 41.3900, 64.8940

Conversions

Conversions Part 2

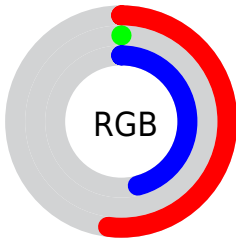
Format	Color
RYB	133, 0, 118
Decimal	8716406
CIELab	30.14, 58.34, -29.54
CIELCh	30, 65.393, 333.148
Yxy	6.2946, 0.3507, 0.1705
Android (android.graphics.Color)	4286906486 (0xFF850076)
YUV	53.2190, 31.9370, 69.9679
Hunter-Lab	25.0890, 48.1785, -24.2006

Details

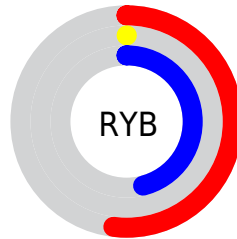
The XYZ color **12.9429, 6.2946, 17.6723** is a dark color, and the websafe version is hex **660066**. A complement of this color would be **8.4741, 16.8099, 3.2505**, and the grayscale version is **3.3704, 3.5460, 3.8615**.

A 20% lighter version of the original color is **30.9684, 18.6525, 40.4962**, and **4.2986, 2.0919, 5.8074** is the 20% darker color. If you saturate the color by 10%, you get **12.9429, 6.2946, 17.6719**, and if you desaturate by 10%, it is **13.1808, 6.6265, 18.1950**.

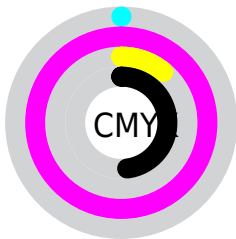
Distribution



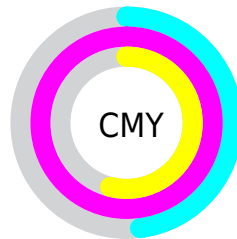
- Red (52%)
- Green (0%)
- Blue (46%)



- Red (52%)
- Yellow (0%)
- Blue (46%)



- Cyan (0%)
- Magenta (100%)
- Yellow (11%)
- Black (48%)



- Cyan (48%)
- Magenta (100%)
- Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9429, 6.2946, 17.6723 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 12.9429, 6.2946, 17.6723 by changing the saturation by 10% instead.

12.9429, 6.2946,
17.6723

12.9429, 6.2946,
17.6723

204.1964,
161.6666, 251.1912

7.4660, 3.0250,
10.5480

30.8034, 18.5394,
40.2845

3.8041, 1.1448,
5.6534

43.9176, 28.2834,
56.6095

1.5919, 0.0159,
2.5702

60.3083, 40.9543,
76.8384

0.3871, 0.0000,
0.8770


80.3408, 56.9365,
101.3898

0.0000, 0.0000,
0.0000


104.3805, 76.6145,
130.6822


132.7928,

100.3725, 165.1343

 165.9430,
128.5951, 205.1644


 12.9429, 6.2946,
17.6723

 12.9429, 6.2946,
17.6723


 12.9429, 6.2946,
17.6719

 13.1808, 6.6265,
18.1950

 13.5073, 7.1334,
18.7543

 13.9728, 7.9160,
19.3669

 14.5940, 9.0077,
20.0386

 15.3852, 10.4369,
20.7740

■ 16.3589, 12.2292,
21.5774

■ 17.5268, 14.4072,
22.4527

■ 18.8992, 16.9921,
23.4034

■ 20.4860, 20.0034,
24.4329

Harmonies

Analogous

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



9.8244, 6.2946, 32.9752



12.9429, 6.2946, 17.6723



14.0209, 6.2946, 5.9670

Triad

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



12.9429, 6.2946, 17.6723



5.6646, 6.2946, 0.0000



2.2773, 6.2946, 20.8703

Complementary

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



12.9429, 6.2946, 17.6723



8.4741, 16.8099, 3.2505

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.



1.8133, 6.2946, 7.8243



12.9429, 6.2946, 17.6723



3.3015, 6.2946, 0.0000

Square

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



12.9429, 6.2946, 17.6723



9.0637, 6.2946, 0.0000



2.1114, 6.2946, 1.7035



3.6936, 6.2946, 35.6913

Rectangle

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



12.9429, 6.2946, 17.6723



13.2144, 6.2946, 2.1256



2.1114, 6.2946, 1.7035



2.0319, 6.2946, 15.8750

Sweetspot

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



12.9431, 6.2949, 17.6724



31.2302, 25.5069, 40.0951



4.4045, 1.7817, 22.3023



6.8603, 5.4181, 8.9042



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.9431, 6.2949, 17.6724



23.1417, 11.2577, 31.4557



10.3205, 5.2459, 3.8620



4.8359, 4.7540, 5.7480



12.3301, 5.9964, 16.8423



0.0443, 0.0214, 0.0668

Inverse Universe

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



12.9431, 6.2949, 17.6724



23.1417, 11.2577, 31.4557



9.8286, 17.3516, 10.3831



4.8359, 4.7540, 5.7480



12.3301, 5.9964, 16.8423



0.0443, 0.0214, 0.0668

Previews

White Background



This preview shows how the XYZ color 12.9429, 6.2946, 17.6723 looks on a white background.

Color Contrast Check

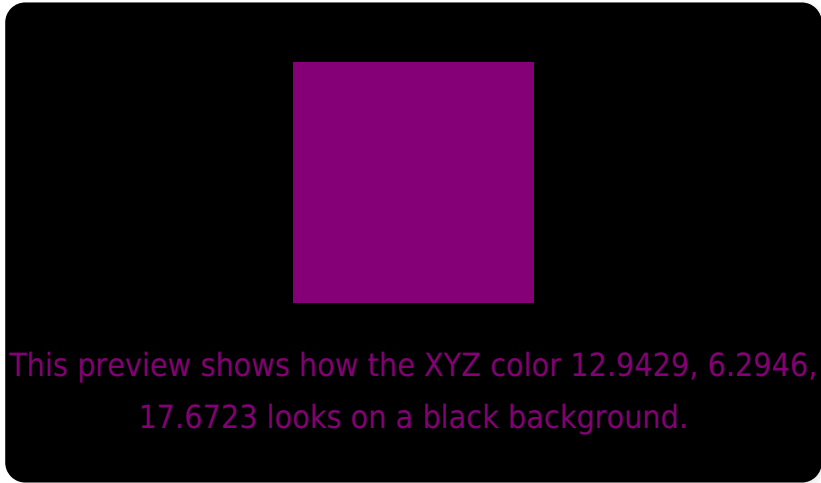
Large Text (above 18pt) WCAG AA ✓ Pass

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

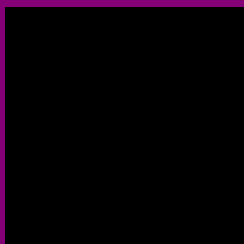
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9429, 6.2946, 17.6723

Background



This preview shows how black text looks on a background with the XYZ color 12.9429, 6.2946, 17.6723.



This preview shows how white text looks on a background with the XYZ color 12.9429, 6.2946, 17.6723.

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

12.9429, 6.2946, 17.6723

Protanopia

7.9849, 6.9017, 30.6171

Deuteranopia

7.0629, 6.9448, 16.0071



Tritanopia

10.2838, 6.6878, 3.6546

Trichromacy



Original Color

12.9429, 6.2946, 17.6723



Protanomaly

6.9295, 4.4758, 25.3096



Deuteranomaly

7.8001, 5.1792, 16.5082



Tritanomaly

10.7287, 6.0403, 7.0790

Monochromacy



Original Color

12.9429, 6.2946, 17.6723



Achromatopsia

3.3839, 3.5601, 3.8770



Achromatomaly

5.3913, 3.4737, 7.4075

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9429, 6.2946, 17.6723 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(133, 0, 118)` looks like.

```
.text, #text, p{  
    color:rgb(133, 0, 118)  
}
```

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(133, 0, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 0, 118) }
```

Border

The CSS property to change the border of an element to XYZ 12.9429, 6.2946, 17.6723 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(133, 0, 118) }
```


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

```
.border{ border-color:rgb(133, 0, 118) }
```

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

Here you see how a box with a 4 pixel rgb(133, 0, 118) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 0, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 0, 118);  
box-shadow:4px 4px 4px 4px rgb(133, 0,  
118) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9429, 6.2946, 17.6723 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 0, 118) }
```

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

```
.background{ background-color: rgb(133, 0,  
118) }
```

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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