

Converting Colors

XYZ(12.9116, 5.8904, 35.2008)

Have a look what the booklet for
XYZ(12.9116, 5.8904, 35.2008)
contains.

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Color

**XYZ(12.9175, 5.8956,
35.1075)**

Conversions

Conversions Part 1

Format	Color
Hex	6D00A3
RGB	109, 0, 163
RGB Percent	43%, 0%, 64%
CMY	0.5725, 1.0000, 0.3608
CMYK	0.33, 1.00, 0.00, 0.36
HSL	280°, 100%, 32%
HSV	280°, 100%, 64%
XYZ	12.9175, 5.8956, 35.1075
YIQ	51.1730, 12.6410, 73.8010

Conversions

Conversions Part 2

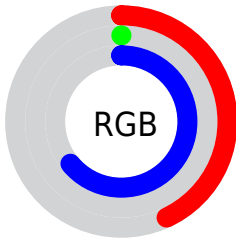
Format	Color
RYB	109, 0, 163
Decimal	7143587
CIELab	29.15, 62.47, -59.30
CIElCh	29, 86.134, 316.489
Yxy	5.8956, 0.2396, 0.1093
Android (android.graphics.Color)	4285333667 (0xFF6D00A3)
YUV	51.1730, 55.1307, 50.7143
Hunter-Lab	24.2809, 52.4711, -68.7303

Details

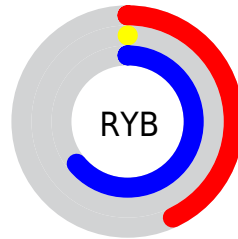
The XYZ color **12.9175, 5.8956, 35.1075** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **14.6188, 26.9789, 4.4371**, and the grayscale version is **3.1042, 3.2659, 3.5566**.

A 20% lighter version of the original color is **30.7653, 17.7279, 68.8182**, and **4.2306, 1.8559, 14.8871** is the 20% darker color. If you saturate the color by 10%, you get **12.9176, 5.8956, 35.1076**, and if you desaturate by 10%, it is **13.7925, 6.6285, 35.2030**.

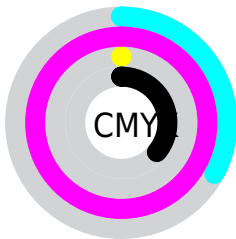
Distribution



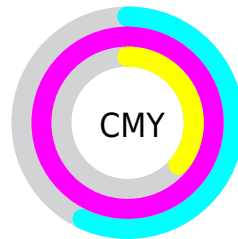
- Red (43%)
- Green (0%)
- Blue (64%)



- Red (43%)
- Yellow (0%)
- Blue (64%)



- Cyan (33%)
- Magenta (100%)
- Yellow (0%)
- Black (36%)



- Cyan (57%)
- Magenta (100%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9175, 5.8956, 35.1075 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 12.9175, 5.8956, 35.1075 by changing the saturation by 10% instead.

12.9175, 5.8956,
35.1075

12.9175, 5.8956,
35.1075

204.0366,
158.1431, 339.9612

7.4484, 2.7817,
23.4615

30.7581, 17.7141,
68.8057

3.7929, 1.0189,
14.7261

43.8602, 27.1876,
91.6950

1.5856, 0.0000,
8.4829

60.2374, 39.5496,
119.1691

0.3830, 0.0000,
4.3133

80.2550, 55.1847,
151.6466

0.0000, 0.0000,
1.7988

104.2784, 74.4772,
189.5461

0.0000, 0.0000,
0.4271


132.6728, 97.8115,


0.0000, 0.0000,


233.2859

0.0000

 165.8038,
125.5720, 283.2848


 12.9175, 5.8956,
35.1075


 12.9175, 5.8956,
35.1075


 12.9176, 5.8956,
35.1076

 13.7925, 6.6285,
35.2030

 14.8621, 7.6892,
35.3513

 16.1922, 9.2083,
35.5744

 17.8115, 11.2421,
35.8817

 19.7447, 13.8390,
36.2810

■ 22.0134, 17.0414,
36.7796

■ 24.6373, 20.8876,
37.3837

■ 27.6343, 25.4127,
38.0991

■ 31.0213, 30.6492,
38.9314

Harmonies

Analogous

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



7.9919, 5.8956, 56.2016



12.9175, 5.8956, 35.1075



16.3987, 5.8956, 12.7962

Triad

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



12.9175, 5.8956, 35.1075



7.5280, 5.8956, 0.0000



1.0685, 5.8956, 14.5659

Complementary

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



12.9175, 5.8956, 35.1075



14.6188, 26.9789, 4.4371

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.



1.0357, 5.8956, 2.6168



12.9175, 5.8956, 35.1075



3.7459, 5.8956, 0.0000

Square

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



12.9175, 5.8956, 35.1075



12.4463, 5.8956, 0.0000



1.7542, 5.8956, 0.0000



1.8832, 5.8956, 37.5942

Rectangle

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



12.9175, 5.8956, 35.1075



16.7247, 5.8956, 4.2998



1.7542, 5.8956, 0.0000



0.9852, 5.8956, 9.1411

Sweetspot

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



12.9178, 5.8958, 35.1076



43.8429, 36.9908, 66.8853



7.9459, 5.3142, 35.2574



9.4090, 7.6610, 14.9203



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

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



12.9178, 5.8958, 35.1076



22.9148, 10.4453, 62.8645



19.5366, 9.5596, 24.0464



7.1352, 7.0841, 8.8944



10.0887, 4.6074, 27.2874



0.2587, 0.1209, 0.5756

Inverse Universe

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



15.7703, 8.0531, 4.2137



28.1598, 14.3888, 7.1069



13.2971, 26.2745, 5.4180



7.1660, 7.1229, 7.8608



12.2755, 6.2663, 3.3754



0.2791, 0.1401, 0.1822

Previews

White Background



This preview shows how the XYZ color 12.9175, 5.8956, 35.1075 looks on a white background.

Color Contrast Check

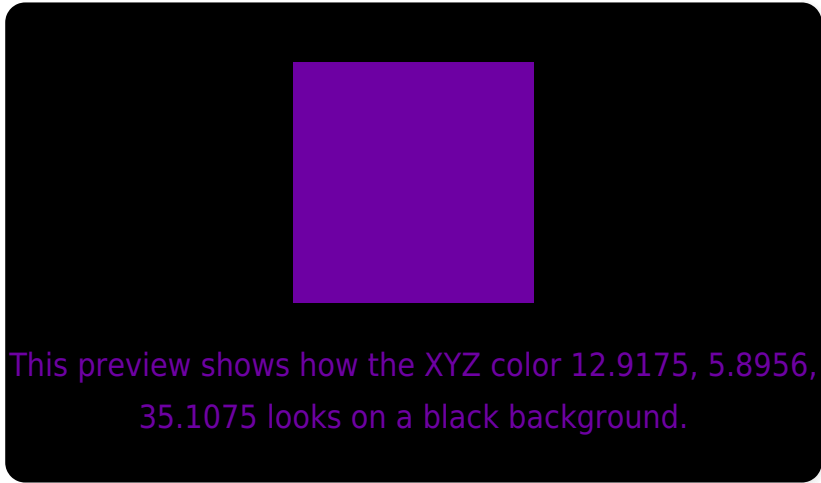
Large Text (above 18pt) WCAG AA ✓ Pass

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

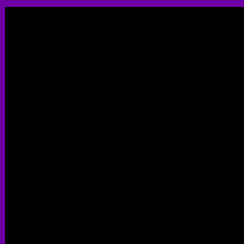
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9175, 5.8956, 35.1075

Background



This preview shows how black text looks on a background with the XYZ color 12.9175, 5.8956, 35.1075.



This preview shows how white text looks on a background with the XYZ color 12.9175, 5.8956,

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

12.9175, 5.8956, 35.1075

Protanopia

7.3164, 6.3316, 28.0306

Deuteranopia

6.2147, 6.4039, 20.6472



Tritanopia

7.3212, 6.3718, 6.4742

Trichromacy



Original Color

12.9175, 5.8956, 35.1075

Protanomaly

7.4433, 4.5195, 30.1858

Deuteranomaly

6.5518, 4.3482, 24.9201

Tritanomaly

8.2781, 5.1618, 13.3920

Monochromacy



Original Color

12.9175, 5.8956, 35.1075

Achromatopsia

3.1466, 3.3105, 3.6051

Achromatomaly

5.1208, 3.1834, 10.4698

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9175, 5.8956, 35.1075 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(109, 0, 163)` looks like.

```
.text, #text, p{  
    color:rgb(109, 0, 163)  
}
```

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(109, 0, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 0, 163) }
```

Border

The CSS property to change the border of an element to XYZ 12.9175, 5.8956, 35.1075 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(109, 0, 163) }
```


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

```
.border{ border-color:rgb(109, 0, 163) }
```

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

Here you see how a box with a 4 pixel rgb(109, 0, 163) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 0, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 0, 163);  
box-shadow:4px 4px 4px 4px rgb(109, 0,  
163) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9175, 5.8956, 35.1075 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 0, 163) }
```

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

```
.background{ background-color: rgb(109, 0,  
163) }
```

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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