

Converting Colors

XYZ(12.7101, 6.2891, 12.4860)

Have a look what the booklet for
XYZ(12.7101, 6.2891, 12.4860)
contains.

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Color

**XYZ(12.7815, 6.3234,
12.6035)**

Conversions

Conversions Part 1

Format	Color
Hex	8A0064
RGB	138, 0, 100
RGB Percent	54%, 0%, 39%
CMY	0.4588, 0.9999, 0.6078
CMYK	0.00, 1.00, 0.28, 0.46
HSL	317°, 100%, 27%
HSV	317°, 100%, 54%
XYZ	12.7815, 6.3234, 12.6035
YIQ	52.6620, 50.1480, 60.3560

Conversions

Conversions Part 2

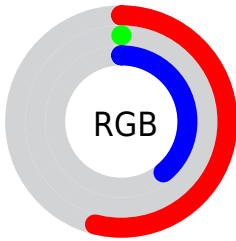
Format	Color
RYB	138, 0, 100
Decimal	9044068
CIELab	30.21, 56.96, -17.79
CIElCh	30, 59.679, 342.656
Yxy	6.3234, 0.4031, 0.1994
Android (android.graphics.Color)	4287234148 (0xFF8A0064)
YUV	52.6620, 23.3376, 74.8414
Hunter-Lab	25.1464, 46.7226, -12.1140

Details

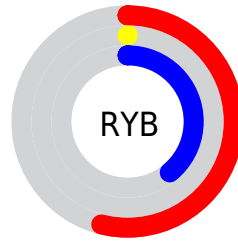
The XYZ color **12.7815, 6.3234, 12.6035** is a dark color, and the websafe version is hex **990066**. A complement of this color would be **9.4388, 18.3172, 4.8732**, and the grayscale version is **3.3128, 3.4853, 3.7955**.

A 20% lighter version of the original color is **30.4741, 18.6016, 31.2625**, and **4.2099, 2.0960, 3.5509** is the 20% darker color. If you saturate the color by 10%, you get **12.7813, 6.3233, 12.6024**, and if you desaturate by 10%, it is **13.1244, 6.7079, 13.6467**.

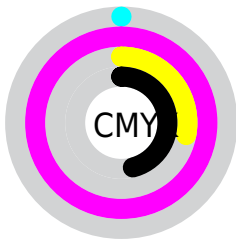
Distribution



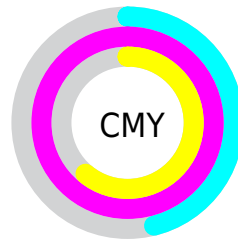
- Red (54%)
- Green (0%)
- Blue (39%)



- Red (54%)
- Yellow (0%)
- Blue (39%)



- Cyan (0%)
- Magenta (100%)
- Yellow (28%)
- Black (46%)





- Cyan (46%)
- Magenta (100%)
- Yellow (61%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.7815, 6.3234, 12.6035 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 12.7815, 6.3234, 12.6035 by changing the saturation by 10% instead.


 12.7815, 6.3234,
12.6035


 12.7815, 6.3234,
12.6035


203.1786,
161.9171, 219.4785

 7.3542, 3.0427,
7.0286


 30.5153, 18.5985,
31.2703


 3.7329, 1.1541,
3.4013

 43.5526, 28.3617,
45.1992


 1.5522, 0.0237,
1.3030

 59.8573, 41.0546,
62.7499

 0.3609, 0.0000,
0.0642

 79.7946, 57.0614,
84.3409

 0.0000, 0.0000,
0.0000

 103.7301, 76.7667,
110.3907

 132.0290,

100.5548, 141.3179

165.0567,
128.8101, 177.5410

12.7815, 6.3234,
12.6035

12.7815, 6.3234,
12.6035

12.7813, 6.3233,
12.6024

13.1244, 6.7079,
13.6467

13.5731, 7.2899,
14.7680

14.1801, 8.1747,
15.9856

14.9639, 9.3987,
17.3061

15.9403, 10.9935,
18.7353

■ 17.1233, 12.9868,
20.2785

■ 18.5255, 15.4039,
21.9402

■ 20.1586, 18.2677,
23.7250

■ 22.0334, 21.5998,
25.6369

Harmonies

Analogous

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



10.4637, 6.3234, 25.6806



12.7815, 6.3234, 12.6035



12.9716, 6.3234, 4.0214

Triad

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



12.7815, 6.3234, 12.6035



4.9027, 6.3234, 0.0000



2.8485, 6.3234, 23.5877

Complementary

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



12.7815, 6.3234, 12.6035



9.4388, 18.3172, 4.8732

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.



2.1302, 6.3234, 10.8611



12.7815, 6.3234, 12.6035



3.0427, 6.3234, 0.5735

Square

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



12.7815, 6.3234, 12.6035



7.7687, 6.3234, 0.0000



2.1880, 6.3234, 3.2263



4.5394, 6.3234, 34.7253

Rectangle

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



12.7815, 6.3234, 12.6035



11.8018, 6.3234, 1.4566



2.1880, 6.3234, 3.2263



2.5129, 6.3234, 19.0609

Sweetspot

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



12.7817, 6.3237, 12.6036



32.4809, 26.8502, 38.4757



5.3438, 2.2252, 24.1927



7.0758, 5.6595, 8.3869



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.7817, 6.3237, 12.6036



22.4603, 11.1183, 21.8507



10.7450, 5.5091, 1.8787



5.1761, 5.1059, 6.0157



11.7250, 5.8001, 11.5879



0.0841, 0.0410, 0.1096

Inverse Universe

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



12.7817, 6.3237, 12.6036



22.4603, 11.1183, 21.8507



11.6800, 19.2137, 16.6753



5.1761, 5.1059, 6.0157



11.7250, 5.8001, 11.5879



0.0841, 0.0410, 0.1096

Previews

White Background



This preview shows how the XYZ color 12.7815, 6.3234, 12.6035 looks on a white background.

Color Contrast Check

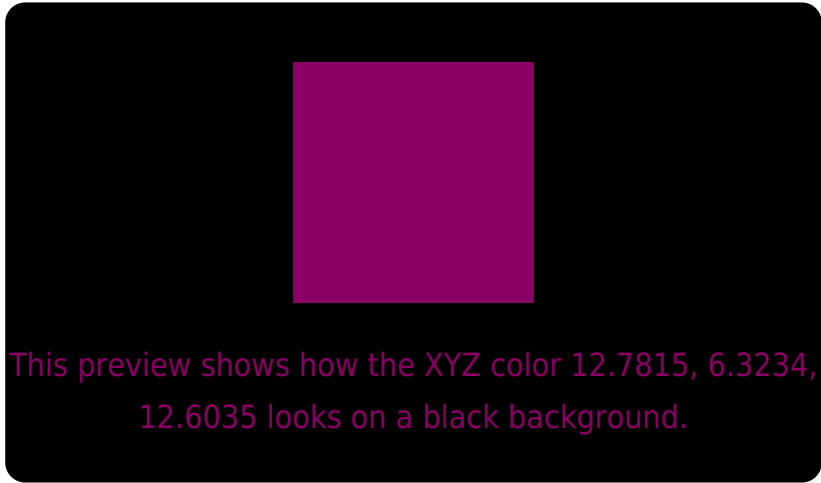
Large Text (above 18pt) WCAG AA ✓ Pass

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

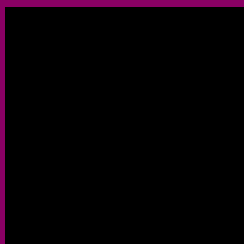
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7815, 6.3234, 12.6035

Background



This preview shows how black text looks on a background with the XYZ color 12.7815, 6.3234, 12.6035.



This preview shows how white text looks on a background with the XYZ color 12.7815, 6.3234,

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

12.7815, 6.3234, 12.6035

Protanopia

7.8930, 6.9450, 26.5157

Deuteranopia

7.0308, 6.9331, 11.3236



Tritanopia

10.9573, 6.6795, 2.8096

Trichromacy



Original Color

12.7815, 6.3234, 12.6035

Protanomaly

7.4802, 4.8640, 20.6233

Deuteranomaly

7.9122, 5.2853, 11.6695

Tritanomaly

11.2088, 6.1940, 5.1622

Monochromacy



Original Color

12.7815, 6.3234, 12.6035

Achromatopsia

3.3839, 3.5601, 3.8770

Achromatomaly

5.3337, 3.4711, 6.1832

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7815, 6.3234, 12.6035 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(138, 0, 100)` looks like.

```
.text, #text, p{  
    color:rgb(138, 0, 100)  
}
```

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(138, 0, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 0, 100) }
```

Border

The CSS property to change the border of an element to XYZ 12.7815, 6.3234, 12.6035 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(138, 0, 100) }
```


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

```
.border{ border-color:rgb(138, 0, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(138, 0, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 0, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 0, 100);  
box-shadow:4px 4px 4px 4px rgb(138, 0,  
100) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7815, 6.3234, 12.6035 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 0, 100) }
```

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

```
.background{ background-color: rgb(138, 0,  
100) }
```

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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