

Converting Colors

XYZ(12.2216, 6.2973, 0.7123)

Have a look what the booklet for
XYZ(12.2216, 6.2973, 0.7123)
contains.

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Color

**XYZ(12.2401, 6.3069,
0.7158)**

Conversions

Conversions Part 1

Format	Color
Hex	940005
RGB	148, 0, 5
RGB Percent	58%, 0%, 2%
CMY	0.4196, 0.9999, 0.9804
CMYK	0.00, 1.00, 0.97, 0.42
HSL	358°, 100%, 29%
HSV	358°, 100%, 58%
XYZ	12.2401, 6.3069, 0.7158
YIQ	44.8220, 86.6030, 32.9310

Conversions

Conversions Part 2

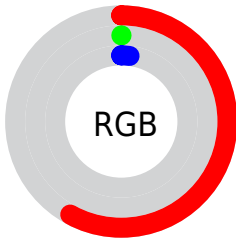
Format	Color
RYB	148, 0, 5
Decimal	9699333
CIELab	30.17, 53.47, 41.79
CIELCh	30, 67.860, 38.007
Yxy	6.3069, 0.6354, 0.3274
Android (android.graphics.Color)	4287889413 (0xFF940005)
YUV	44.8220, -19.6322, 90.4871
Hunter-Lab	25.1135, 43.0505, 15.8896

Details

The XYZ color **12.2401, 6.3069, 0.7158** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **15.5498, 23.1636, 29.6475**, and the grayscale version is **2.4906, 2.6203, 2.8535**.

A 20% lighter version of the original color is **29.4932, 18.5754, 5.1629**, and **3.9305, 2.0262, 0.1839** is the 20% darker color. If you saturate the color by 10%, you get **12.2398, 6.3067, 0.7151**, and if you desaturate by 10%, it is **12.5011, 6.6806, 1.2603**.

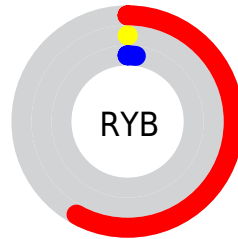
Distribution



Red (58%)

Green (0%)

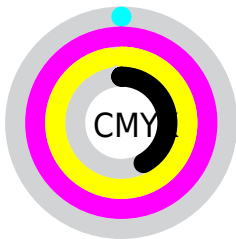
Blue (2%)



Red (58%)

Yellow (0%)

Blue (2%)

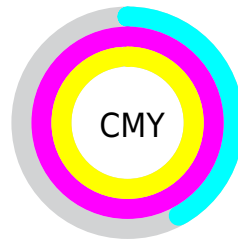


Cyan (0%)

Magenta (100%)

Yellow (97%)

Black (42%)



Cyan (42%)


Magenta (100%)


Yellow (98%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.2401, 6.3069, 0.7158 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 12.2401, 6.3069, 0.7158 by changing the saturation by 10% instead.

 12.2401, 6.3069,
0.7158


 12.2401, 6.3069,
0.7158


 199.7260,
161.7736, 97.8412


 6.9808, 3.0326,
0.0000


 29.5447, 18.5646,
5.1454

 3.4963, 1.1488,
0.0000

 42.3207, 28.3168,
9.7735


 1.4213, 0.0193,
0.0000

 58.3330, 40.9971,
16.5754

 0.2713, 0.0000,
0.0000


 77.9469, 56.9899,
25.9696

 0.0000, 0.0000,
0.0000

 101.5278, 76.6795,
38.3748


 129.4411,


100.4504, 54.2095


 162.0520,
128.6870, 73.8921

 12.2401, 6.3069,
0.7158

 12.2401, 6.3069,
0.7158


 12.2398, 6.3067,
0.7151

 12.5011, 6.6806,
1.2603

 12.9505, 7.3187,
2.2137

 13.6607, 8.3416,
3.6763

 14.6634, 9.7970,
5.7058

 15.9853, 11.7256,
8.3518

■ 17.6507, 14.1635,
11.6590

■ 19.6809, 17.1433,
15.6676

■ 22.0960, 20.6948,
20.4147

■ 24.9144, 24.8457,
25.9349

Harmonies

Analogous

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



14.3473, 6.3069, 4.6999



12.2401, 6.3069, 0.7158



8.5965, 6.3069, 0.0000

Triad

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



12.2401, 6.3069, 0.7158



1.9171, 6.3069, 2.1667



6.8899, 6.3069, 43.0651

Complementary

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



12.2401, 6.3069, 0.7158



15.5498, 23.1636, 29.6475

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.



3.9790, 6.3069, 39.4102



12.2401, 6.3069, 0.7158



1.7420, 6.3069, 9.6153

Square

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



12.2401, 6.3069, 0.7158



2.9561, 6.3069, 0.0000



2.3449, 6.3069, 24.3490



10.6184, 6.3069, 32.0776

Rectangle

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



12.2401, 6.3069, 0.7158



6.2103, 6.3069, 0.0000



2.3449, 6.3069, 24.3490



5.7838, 6.3069, 43.6135

Sweetspot

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



12.2402, 6.3073, 0.7159



34.4866, 29.8965, 27.1726



16.2622, 7.7664, 28.6585



7.5451, 6.3439, 5.5572



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.



12.2402, 6.3073, 0.7159



21.5840, 11.1229, 1.1940



14.1969, 10.2643, 1.2337



5.8082, 5.8184, 6.0963



10.4570, 5.3879, 0.6218



0.1296, 0.0666, 0.0159

Inverse Universe

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



12.2402, 6.3073, 0.7159



21.5840, 11.1229, 1.1940



8.3186, 8.0843, 29.1386



5.8082, 5.8184, 6.0963



10.4570, 5.3879, 0.6218



0.1296, 0.0666, 0.0159

Previews

White Background



This preview shows how the XYZ color 12.2401, 6.3069, 0.7158 looks on a white background.

Color Contrast Check

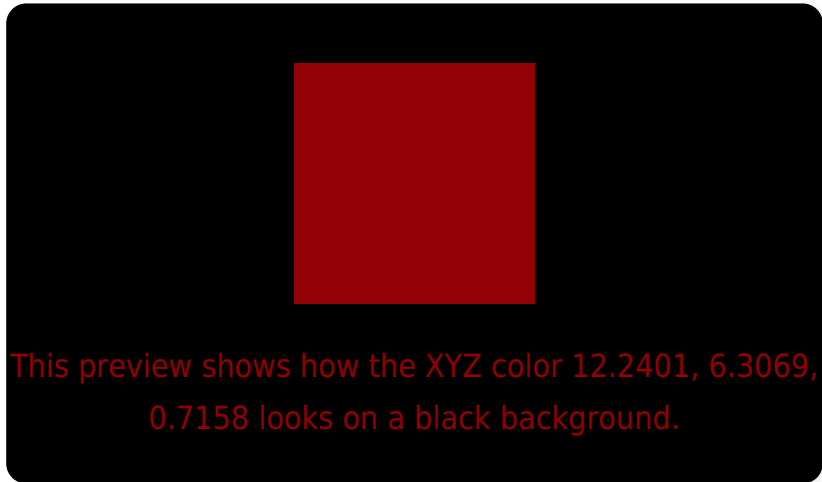
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.2401, 6.3069, 0.7158

Background



This preview shows how black text looks on a background with the XYZ color 12.2401, 6.3069, 0.7158.



This preview shows how white text looks on a background with the XYZ color 12.2401, 6.3069,

0.7158.

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

12.2401, 6.3069, 0.7158

Protanopia

6.2985, 6.9675, 1.6747

Deuteranopia

6.8693, 6.8862, 0.9671



Tritanopia

12.1897, 6.5171, 0.6155

Trichromacy



Original Color

12.2401, 6.3069, 0.7158

Protanomaly

7.2066, 5.2742, 1.0901

Deuteranomaly

7.8888, 5.4586, 0.6953

Tritanomaly

12.1413, 6.4028, 0.6534

Monochromacy



Original Color

12.2401, 6.3069, 0.7158

Achromatopsia

2.4942, 2.6241, 2.8577

Achromatomaly

4.1534, 2.7663, 1.5433

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2401, 6.3069, 0.7158 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(148, 0, 5)` looks like.

```
.text, #text, p{  
    color:rgb(148, 0, 5)  
}
```

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(148, 0, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 0, 5) }
```

Border

The CSS property to change the border of an element to XYZ 12.2401, 6.3069, 0.7158 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(148, 0, 5) }
```


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

```
.border{ border-color:rgb(148, 0, 5) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 0, 5)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 0, 5); -webkit-box-shadow:4px  
4px 4px 4px rgb(148, 0, 5); box-shadow:4px  
4px 4px 4px rgb(148, 0, 5) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2401, 6.3069, 0.7158 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 0, 5) }
```

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

```
.background{ background-color: rgb(148, 0,  
5) }
```

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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