

Converting Colors

XYZ(12.3823, 7.7580, 0.8448)

Have a look what the booklet for
XYZ(12.3823, 7.7580, 0.8448)
contains.

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Color

**XYZ(12.4400, 7.8061,
0.8511)**

Conversions

Conversions Part 1

Format	Color
Hex	902D00
RGB	144, 45, 0
RGB Percent	56%, 18%, 0%
CMY	0.4353, 0.8235, 1.0000
CMYK	0.00, 0.69, 1.00, 0.44
HSL	19°, 100%, 28%
HSV	19°, 100%, 56%
XYZ	12.4400, 7.8061, 0.8511
YIQ	69.4710, 73.4490, 6.9930

Conversions

Conversions Part 2

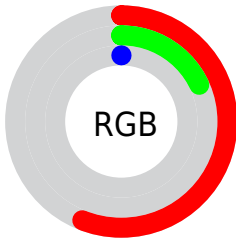
Format	Color
RYB	144, 65, 0
Decimal	9448704
CIELab	33.58, 40.17, 45.72
CIELCh	34, 60.859, 48.692
Yxy	7.8061, 0.5897, 0.3700
Android (android.graphics.Color)	4287638784 (0xFF902D00)
YUV	69.4710, -34.2492, 65.3619
Hunter-Lab	27.9394, 30.5831, 17.7515

Details

The XYZ color **12.4400, 7.8061, 0.8511** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **9.4954, 10.9363, 27.9958**, and the grayscale version is **5.7807, 6.0817, 6.6230**.

A 20% lighter version of the original color is **29.9354, 21.5752, 5.6043**, and **3.7463, 1.9313, 0.1753** is the 20% darker color. If you saturate the color by 10%, you get **12.4401, 7.8064, 0.8511**, and if you desaturate by 10%, it is **12.9453, 8.6856, 1.4241**.

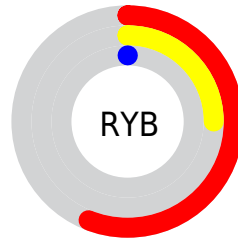
Distribution



Red (56%)

Green (18%)

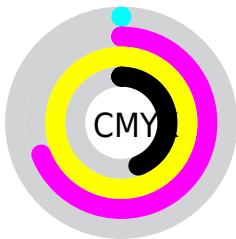
Blue (0%)



Red (56%)

Yellow (25%)

Blue (0%)

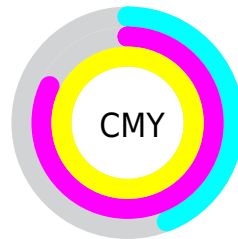


Cyan (0%)

Magenta (69%)

Yellow (100%)

Black (44%)



Cyan (44%)


Magenta (82%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 12.4400, 7.8061, 0.8511 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 12.4400, 7.8061, 0.8511 by changing the saturation by 10% instead.


 12.4400, 7.8061,
0.8511


 12.4400, 7.8061,
0.8511


 201.0078,
174.2032, 100.8141


 7.1184, 3.9711,
0.0000


 29.9039, 21.5774,
5.5697


 3.5832, 1.6574,
0.0000

 42.7770, 32.2826,
10.4209


 1.4692, 0.3959,
0.0000

 58.8979, 46.0466,
17.4929

 0.3047, 0.0000,
0.0000


 78.6320, 63.2538,
27.2043


 0.0000, 0.0000,
0.0000

 102.3447, 84.2887,
39.9736


 130.4014,

109.5356, 56.2193

 163.1673,
139.3790, 76.3599


 12.4400, 7.8061,
0.8511


 12.4400, 7.8061,
0.8511


 12.4401, 7.8064,
0.8511

 12.9453, 8.6856,
1.4241

 13.6000, 9.7753,
2.3197

 14.4374, 11.0974,
3.6861

 15.4726, 12.6656,
5.5794

 16.7189, 14.4925,
8.0474

■ 18.1885, 16.5897,
11.1328

■ 19.8923, 18.9680,
14.8739

■ 21.8407, 21.6378,
19.3061

■ 24.0432, 24.6086,
24.4620

Harmonies

Analogous

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



15.1900, 7.8061, 3.9078



12.4400, 7.8061, 0.8511



8.7332, 7.8061, 0.0000

Triad

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



12.4400, 7.8061, 0.8511



2.7777, 7.8061, 5.4135



9.6422, 7.8061, 39.9034

Complementary

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



12.4400, 7.8061, 0.8511



9.4954, 10.9363, 27.9958

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.



6.2446, 7.8061, 41.6243



12.4400, 7.8061, 0.8511



2.8889, 7.8061, 15.7466

Square

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



12.4400, 7.8061, 0.8511



3.6037, 7.8061, 1.2654



3.9723, 7.8061, 30.7314



13.2727, 7.8061, 26.9987

Rectangle

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



12.4400, 7.8061, 0.8511



6.5021, 7.8061, 0.0000



3.9723, 7.8061, 30.7314



8.4193, 7.8061, 42.0407

Sweetspot

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



12.4402, 7.8066, 0.8512



34.8880, 33.1820, 25.7926



13.8407, 6.8650, 12.8563



7.7311, 7.2350, 5.3174



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.4402, 7.8066, 0.8512



21.8083, 13.5021, 1.4567



17.6551, 18.2364, 2.5895



5.5379, 5.6820, 5.6942



10.8523, 6.8363, 0.7476



0.1217, 0.1013, 0.0131

Inverse Universe

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



9.4954, 10.9363, 27.9958



16.5943, 18.9823, 49.3274



5.4686, 2.8827, 26.6535



5.4200, 5.8358, 6.8695



8.2902, 9.5665, 24.3867



0.0990, 0.1309, 0.2397

Previews

White Background



This preview shows how the XYZ color 12.4400, 7.8061, 0.8511 looks on a white background.

Color Contrast Check

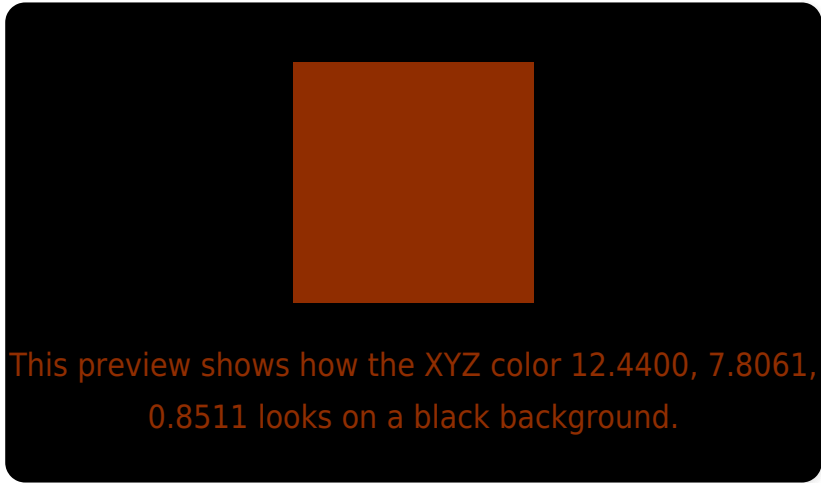
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.4400, 7.8061, 0.8511

Background



This preview shows how black text looks on a background with the XYZ color 12.4400, 7.8061, 0.8511.



This preview shows how white text looks on a background with the XYZ color 12.4400, 7.8061,

0.8511.

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

12.4400, 7.8061, 0.8511

Protanopia

7.1786, 7.9484, 1.6460

Deuteranopia

7.9513, 7.9356, 1.1126



Tritanopia

12.9596, 7.8575, 3.2165

Trichromacy



Original Color

12.4400, 7.8061, 0.8511

Protanomaly

8.4923, 7.3512, 1.2585

Deuteranomaly

9.2264, 7.5625, 0.9734

Tritanomaly

12.7505, 7.8313, 1.9382

Monochromacy



Original Color

12.4400, 7.8061, 0.8511

Achromatopsia

5.6565, 5.9511, 6.4808

Achromatomaly

6.8944, 5.9004, 3.1584

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4400, 7.8061, 0.8511 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(144, 45, 0)` looks like.

```
.text, #text, p{  
    color:rgb(144, 45, 0)  
}
```

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(144, 45, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 45, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.4400, 7.8061, 0.8511 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(144, 45, 0) }
```


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

```
.border{ border-color:rgb(144, 45, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 45, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 45, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 45, 0);  
box-shadow:4px 4px 4px 4px rgb(144, 45, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.4400, 7.8061, 0.8511 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 45, 0) }
```

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

```
.background{ background-color: rgb(144, 45,  
0) }
```

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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