

Converting Colors

XYZ(12.8401, 8.0450, 7.9180)

Have a look what the booklet for
XYZ(12.8401, 8.0450, 7.9180)
contains.

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Color

**XYZ(12.8777, 8.0530,
7.8968)**

Conversions

Conversions Part 1

Format	Color
Hex	8A304D
RGB	138, 48, 77
RGB Percent	54%, 19%, 30%
CMY	0.4588, 0.8117, 0.6980
CMYK	0.00, 0.65, 0.44, 0.46
HSL	341°, 48%, 36%
HSV	341°, 65%, 54%
XYZ	12.8777, 8.0530, 7.8968
YIQ	78.2160, 44.3310, 28.0990

Conversions

Conversions Part 2

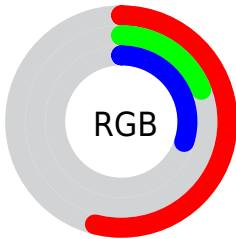
Format	Color
RYB	138, 48, 77
Decimal	9056333
CIELab	34.09, 40.89, 2.96
CIElCh	34, 40.994, 4.143
Yxy	8.0530, 0.4467, 0.2794
Android (android.graphics.Color)	4287246413 (0xFF8A304D)
YUV	78.2160, -0.5995, 52.4306
Hunter-Lab	28.3778, 31.3412, 3.3656

Details

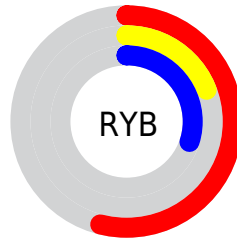
The XYZ color **12.8777, 8.0530, 7.8968** is a dark color, and the websafe version is hex **993366**. A complement of this color would be **13.0682, 19.9096, 17.6236**, and the grayscale version is **7.2780, 7.6570, 8.3385**.

A 20% lighter version of the original color is **30.7334, 22.0321, 22.3715**, and **3.8418, 1.9488, 1.6125** is the 20% darker color. If you saturate the color by 10%, you get **12.0917, 6.9721, 6.1209**, and if you desaturate by 10%, it is **13.8873, 9.5050, 9.9818**.

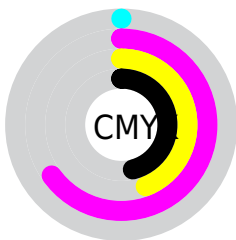
Distribution



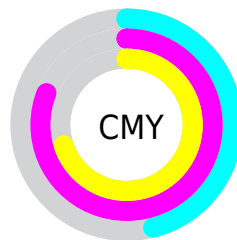
- Red (54%)
- Green (19%)
- Blue (30%)



- Red (54%)
- Yellow (19%)
- Blue (30%)



- Cyan (0%)
- Magenta (65%)
- Yellow (44%)
- Black (46%)




- Cyan (46%)
- Magenta (81%)
- Yellow (70%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.8777, 8.0530, 7.8968 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 12.8777, 8.0530, 7.8968 by changing the saturation by 10% instead.


 12.8777, 8.0530,
7.8968


 12.8777, 8.0530,
7.8968


203.7858,
176.1471, 184.8246


 7.4208, 4.1289,
3.9422


 30.6871, 22.0623,
22.2987


 3.7753, 1.7459,
1.5937

 43.7703, 32.9162,
33.5830


 1.5758, 0.4531,
0.2863

 60.1263, 46.8489,
48.1477

 0.3766, 0.0000,
0.0000

 80.1204, 64.2447,
66.4112

 0.0000, 0.0000,
0.0000

 104.1181, 85.4880,
88.7921

 132.4847,

110.9633, 115.7089

165.5855,
141.0549, 147.5803

■ 12.8777, 8.0530,
7.8968

■ 12.8777, 8.0530,
7.8968

■ 12.0917, 6.9721,
6.1209

■ 13.8873, 9.5050,
9.9818

■ 11.5097, 6.2265,
4.6373

■ 15.1364, 11.3571,
12.3903

■ 11.1060, 5.7679,
3.4269

■ 16.6404, 13.6369,
15.1364

■ 10.9445, 5.5886,
2.9304

■ 18.4129, 16.3691,
18.2330

■ 20.4666, 19.5765,
21.6924

■ 22.8135, 23.2805,
25.5262

■ 25.4648, 27.5010,
29.7455

■ 28.4310, 32.2569,
34.3610

■ 31.7221, 37.5662,
39.3828

Harmonies

Analogous

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



12.2857, 8.0530, 15.4185



12.8777, 8.0530, 7.8968



11.8590, 8.0530, 3.4617

Triad

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



12.8777, 8.0530, 7.8968



5.4587, 8.0530, 1.9626



5.9059, 8.0530, 25.4863

Complementary

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



12.8777, 8.0530, 7.8968



13.0682, 19.9096, 17.6236

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.



4.5832, 8.0530, 17.8088



12.8777, 8.0530, 7.8968



4.3631, 8.0530, 4.3725

Square

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



12.8777, 8.0530, 7.8968



7.3434, 8.0530, 1.2804



4.0773, 8.0530, 9.7018



7.9735, 8.0530, 28.0469

Rectangle

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



12.8777, 8.0530, 7.8968



10.5023, 8.0530, 2.0426



4.0773, 8.0530, 9.7018



5.3739, 8.0530, 23.2798

Sweetspot

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



12.8779, 8.0534, 7.8969



34.1254, 31.4523, 34.9762



11.8291, 7.1376, 24.7988



7.4615, 6.7543, 7.5189



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.



12.8779, 8.0534, 7.8969



20.8147, 11.6352, 9.5625



12.7926, 9.1722, 3.8931



5.0950, 5.0734, 5.5886



10.0408, 5.1264, 2.7191



0.0728, 0.0365, 0.0504

Inverse Universe

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



12.8779, 8.0534, 7.8969



20.8147, 11.6352, 9.5625



12.8896, 16.6296, 26.5751



5.0950, 5.0734, 5.5886



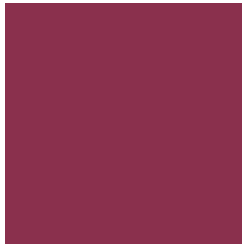
10.0408, 5.1264, 2.7191



0.0728, 0.0365, 0.0504

Previews

White Background



This preview shows how the XYZ color 12.8777, 8.0530, 7.8968 looks on a white background.

Color Contrast Check

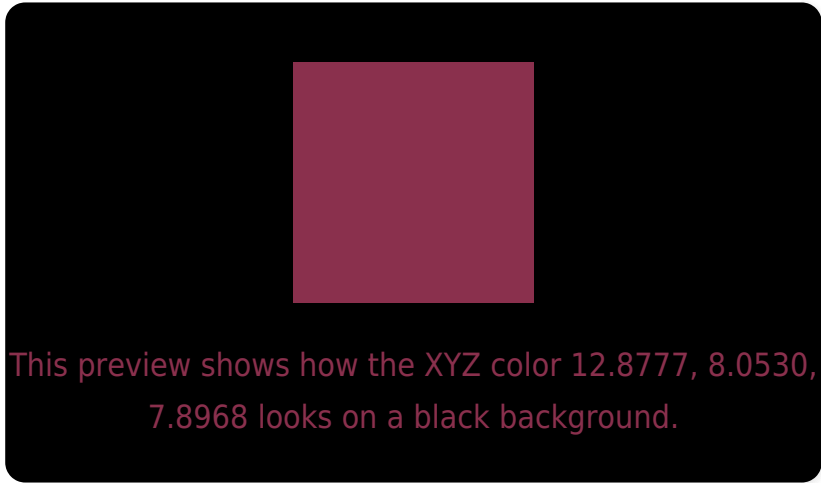
Large Text (above 18pt) WCAG AA ✓ Pass

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

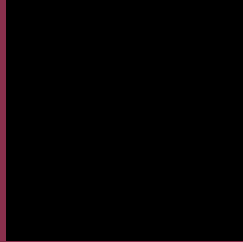
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8777, 8.0530, 7.8968

Background



This preview shows how black text looks on a background with the XYZ color 12.8777, 8.0530, 7.8968.

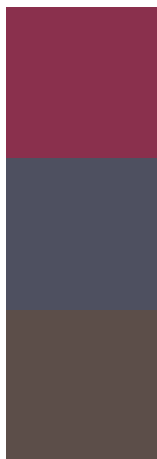


This preview shows how white text looks on a background with the XYZ color 12.8777, 8.0530,

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

12.8777, 8.0530, 7.8968

Protanopia

8.1219, 8.2016, 12.2213

Deuteranopia

8.3406, 8.2051, 7.4475



Tritanopia

12.2583, 8.0599, 4.6510

Trichromacy



Original Color

12.8777, 8.0530, 7.8968

Protanomaly

9.1258, 7.5648, 10.4304

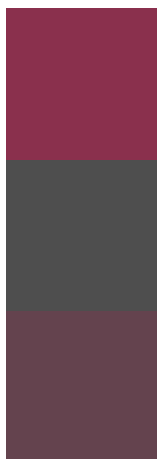
Deuteranomaly

9.5499, 7.7599, 7.4730

Tritanomaly

12.4258, 8.0562, 5.7506

Monochromacy



Original Color

12.8777, 8.0530, 7.8968

Achromatopsia

7.2414, 7.6185, 8.2966

Achromatomaly

8.6378, 7.2737, 8.1564

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8777, 8.0530, 7.8968 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, 48, 77)` looks like.

```
.text, #text, p{  
    color:rgb(138, 48, 77)  
}
```

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, 48, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 48, 77) }
```

Border

The CSS property to change the border of an element to XYZ 12.8777, 8.0530, 7.8968 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, 48, 77) }
```


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

```
.border{ border-color:rgb(138, 48, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(138, 48, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 48, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 48, 77);  
box-shadow:4px 4px 4px 4px rgb(138, 48,  
77) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8777, 8.0530, 7.8968 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 48, 77) }
```

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

```
.background{ background-color: rgb(138, 48,  
77) }
```

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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