

Converting Colors

XYZ(12.8433, 11.5624, 3.8700)

Have a look what the booklet for
XYZ(12.8433, 11.5624, 3.8700)
contains.

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Color

**XYZ(12.8171, 11.4971,
3.8291)**

Conversions

Conversions Part 1

Format	Color
Hex	81562B
RGB	129, 86, 43
RGB Percent	51%, 34%, 17%
CMY	0.4941, 0.6627, 0.8314
CMYK	0.00, 0.33, 0.67, 0.49
HSL	30°, 50%, 34%
HSV	30°, 67%, 51%
XYZ	12.8171, 11.4971, 3.8291
YIQ	93.9550, 39.4310, -4.2570

Conversions

Conversions Part 2

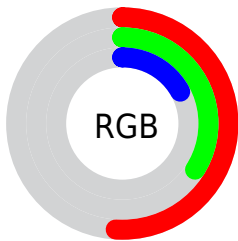
Format	Color
R_{YB}	129, 129, 43
Decimal	8476203
CIE Lab	40.41, 13.27, 31.73
CIE LCh	40, 34.391, 67.294
Yxy	11.4971, 0.4554, 0.4085
Android (android.graphics.Color)	4286666283 (0xFF81562B)
YUV	93.9550, -25.1208, 30.7345
Hunter-Lab	33.9074, 8.1357, 17.0396

Details

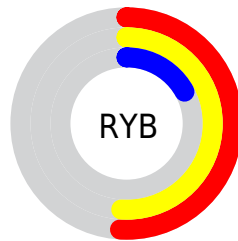
The XYZ color **12.8171, 11.4971, 3.8291** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **8.2863, 8.7537, 22.0217**, and the grayscale version is **10.6799, 11.2361, 12.2361**.

A 20% lighter version of the original color is **30.6572, 28.6608, 13.5891**, and **3.7734, 3.1224, 0.4038** is the 20% darker color. If you saturate the color by 10%, you get **12.1250, 10.4336, 2.6099**, and if you desaturate by 10%, it is **13.6311, 12.6847, 5.4586**.

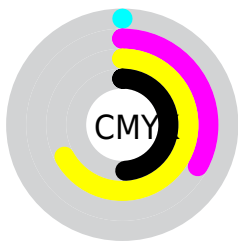
Distribution



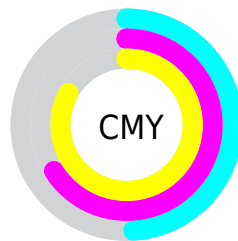
- Red (51%)
- Green (34%)
- Blue (17%)



- Red (51%)
- Yellow (51%)
- Blue (17%)



- Cyan (0%)
- Magenta (33%)
- Yellow (67%)
- Black (49%)



- Cyan (49%)
- Magenta (66%)
- Yellow (83%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8171, 11.4971, 3.8291 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 12.8171, 11.4971, 3.8291 by changing the saturation by 10% instead.

■ 12.8171, 11.4971,
3.8291

■ 12.8171, 11.4971,
3.8291

203.4035,
201.0469, 146.3064

■ 7.3789, 6.4022,
1.5321

■ 30.5789, 28.5758,
13.6137

■ 3.7486, 3.0912,
0.2416

■ 43.6332, 41.3284,
21.9383

■ 1.5609, 1.1795,
0.0000

■ 59.9569, 57.4024,
33.1091

■ 0.3667, 0.0449,
0.0000

■ 79.9153, 77.1822,
47.5448

■ 0.0000, 0.0000,
0.0000

■ 103.8738,
101.0521, 65.6638

■ 132.1978,

129.3966, 87.8848

165.2526,
162.6001, 114.6261

■ 12.8171, 11.4971,
3.8291

■ 12.8171, 11.4971,
3.8291

■ 12.1250, 10.4336,
2.6099

■ 13.6311, 12.6847,
5.4586

■ 11.5454, 9.4870,
1.7613

■ 14.5739, 13.9995,
7.5319

■ 11.0635, 8.6499,
1.2100

■ 15.6524, 15.4468,
10.0797

■ 10.9152, 8.3911,
1.0443

■ 16.8730, 17.0307,
13.1296

■ 18.2416, 18.7553,
16.7072

■ 19.7636, 20.6245,
20.8364

■ 21.4442, 22.6419,
25.5395

■ 23.2883, 24.8110,
30.8377

■ 25.3007, 27.1353,
36.7509

Harmonies

Analogous

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



15.0474, 11.4971, 6.0726



12.8171, 11.4971, 3.8291



10.3494, 11.4971, 3.4257

Triad

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



12.8171, 11.4971, 3.8291



6.9432, 11.4971, 14.2814



13.9851, 11.4971, 26.3345

Complementary

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



12.8171, 11.4971, 3.8291



8.2863, 8.7537, 22.0217

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.



11.5271, 11.4971, 30.8525



12.8171, 11.4971, 3.8291



7.6382, 11.4971, 22.4126

Square

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



12.8171, 11.4971, 3.8291



7.1838, 11.4971, 8.0600



9.2337, 11.4971, 29.2010



15.7880, 11.4971, 18.3762

Rectangle

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



12.8171, 11.4971, 3.8291



8.9361, 11.4971, 4.0368



9.2337, 11.4971, 29.2010



13.1950, 11.4971, 28.4177

Sweetspot

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



12.8174, 11.4977, 3.8293



31.7029, 32.3821, 27.3685



11.5969, 7.0668, 9.5570



7.0460, 7.1660, 5.8554



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.8174, 11.4977, 3.8293



21.1485, 17.7758, 3.8042



17.3395, 20.5420, 5.3367



4.4915, 4.6718, 4.5851



10.6466, 8.1897, 1.0196



0.0000, 0.0000, 0.0000

Inverse Universe

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



8.2863, 8.7537, 22.0217



12.3957, 12.4752, 38.9471



5.8227, 3.8264, 21.2005



4.2726, 4.5392, 5.4642



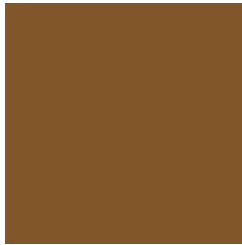
5.6825, 5.1835, 20.9510



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.8171, 11.4971, 3.8291 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 × Fail

Black Background



This preview shows how the XYZ color 12.8171, 11.4971, 3.8291 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

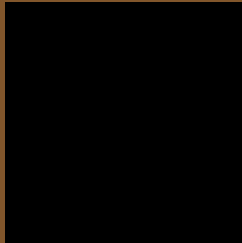
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8171, 11.4971, 3.8291

Background



This preview shows how black text looks on a background with the XYZ color 12.8171, 11.4971, 3.8291.



This preview shows how white text looks on a background with the XYZ color 12.8171, 11.4971,

3.8291.

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

12.8171, 11.4971, 3.8291

Protanopia

10.6199, 11.6272, 4.2693

Deuteranopia

11.7668, 11.5713, 3.8038



Tritanopia

14.1784, 11.4785, 10.4851

Trichromacy



Original Color

12.8171, 11.4971, 3.8291

Protanomaly

11.2402, 11.4212, 4.0947

Deuteranomaly

12.1587, 11.5229, 3.7738

Tritanomaly

13.5907, 11.4667, 7.4582

Monochromacy



Original Color

12.8171, 11.4971, 3.8291

Achromatopsia

10.6392, 11.1932, 12.1894

Achromatomaly

11.0745, 11.1160, 8.2185

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8171, 11.4971, 3.8291 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(129, 86, 43)` looks like.

```
.text, #text, p{  
    color:rgb(129, 86, 43)  
}
```

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(129, 86, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 86, 43) }
```

Border

The CSS property to change the border of an element to XYZ 12.8171, 11.4971, 3.8291 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(129, 86, 43) }
```


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

```
.border{ border-color:rgb(129, 86, 43) }
```

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

Here you see how a box with a 4 pixel rgb(129, 86, 43) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 86, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 86, 43);  
box-shadow:4px 4px 4px 4px rgb(129, 86,  
43) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8171, 11.4971, 3.8291 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 86, 43) }
```

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

```
.background{ background-color: rgb(129, 86,  
43) }
```

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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