

Converting Colors

XYZ(11.9888, 9.8186, 4.3587)

Have a look what the booklet for
XYZ(11.9888, 9.8186, 4.3587)
contains.

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Color

**XYZ(12.0157, 9.8604,
4.4019)**

Conversions

Conversions Part 1

Format	Color
Hex	804B33
RGB	128, 75, 51
RGB Percent	50%, 29%, 20%
CMY	0.4980, 0.7059, 0.8000
CMYK	0.00, 0.41, 0.60, 0.50
HSL	19°, 43%, 35%
HSV	19°, 60%, 50%
XYZ	12.0157, 9.8604, 4.4019
YIQ	88.1110, 39.2920, 3.7720

Conversions

Conversions Part 2

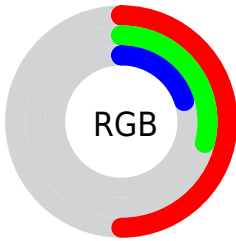
Format	Color
R_{YB}	128, 86, 51
Decimal	8407859
CIE Lab	37.59, 19.95, 23.76
CIE LCh	38, 31.020, 49.980
Yxy	9.8604, 0.4573, 0.3752
Android (android.graphics.Color)	4286597939 (0xFF804B33)
YUV	88.1110, -18.2957, 34.9827
Hunter-Lab	31.4013, 13.3508, 13.6695

Details

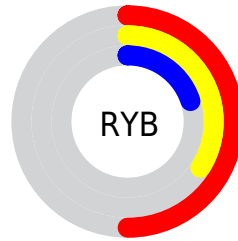
The XYZ color **12.0157, 9.8604, 4.4019** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **10.2114, 12.1622, 22.2312**, and the grayscale version is **9.3330, 9.8191, 10.6930**.

A 20% lighter version of the original color is **29.1794, 25.4875, 14.9369**, and **3.3988, 2.4376, 0.4637** is the 20% darker color. If you saturate the color by 10%, you get **11.2147, 8.6496, 2.9292**, and if you desaturate by 10%, it is **12.9777, 11.2689, 6.3119**.

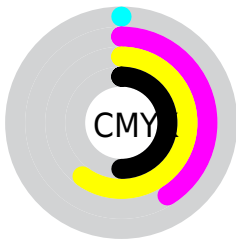
Distribution



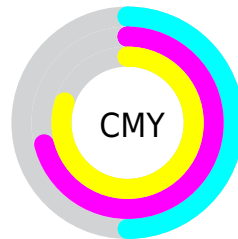
- Red (50%)
- Green (29%)
- Blue (20%)



- Red (50%)
- Yellow (34%)
- Blue (20%)



- Cyan (0%)
- Magenta (41%)
- Yellow (60%)
- Black (50%)





- Cyan (50%)
- Magenta (71%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.0157, 9.8604, 4.4019 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 12.0157, 9.8604, 4.4019 by changing the saturation by 10% instead.


 12.0157, 9.8604,
4.4019


 12.0157, 9.8604,
4.4019


198.2770,
189.6728, 152.5929


 6.8266, 5.3065,
1.8483


 29.1403, 25.5326,
14.9265


 3.3993, 2.4282,
0.4595

 41.8066, 37.4197,
23.7347


 1.3683, 0.8403,
0.0000

 57.6959, 52.5199,
35.4647

 0.2334, 0.0000,
0.0000

 77.1738, 71.2178,
50.5353

 0.0000, 0.0000,
0.0000

 100.6055, 93.8976,
69.3648

 128.3563,

120.9438, 92.3719

160.7917,
152.7407, 119.9751

■ 12.0157, 9.8604,
4.4019

■ 12.0157, 9.8604,
4.4019

■ 11.2147, 8.6496,
2.9292

■ 12.9777, 11.2689,
6.3119

■ 10.5641, 7.6255,
1.8576

■ 14.1089, 12.8821,
8.6903

■ 10.0527, 6.7784,
1.1459

■ 15.4179, 14.7089,
11.5661

■ 9.6575, 6.1002,
0.6684

■ 16.9124, 16.7568,
14.9656

■ 18.5997, 19.0332,
18.9133

■ 20.4864, 21.5449,
23.4321

■ 22.5792, 24.2986,
28.5437

■ 24.8841, 27.3007,
34.2687

■ 27.4071, 30.5573,
40.6264

Harmonies

Analogous

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



13.3871, 9.8604, 7.4491



12.0157, 9.8604, 4.4019



10.0444, 9.8604, 3.2204

Triad

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



12.0157, 9.8604, 4.4019



6.1239, 9.8604, 8.9626



10.7222, 9.8604, 24.4424

Complementary

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



12.0157, 9.8604, 4.4019



10.2114, 12.1622, 22.2312

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.



8.7303, 9.8604, 25.2930



12.0157, 9.8604, 4.4019



6.2526, 9.8604, 14.8711

Square

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



12.0157, 9.8604, 4.4019



6.7677, 9.8604, 5.1759



7.1477, 9.8604, 21.3288



12.5711, 9.8604, 19.2991

Rectangle

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



12.0157, 9.8604, 4.4019



8.7328, 9.8604, 3.2198



7.1477, 9.8604, 21.3288



10.0417, 9.8604, 25.2953

Sweetspot

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



12.0159, 9.8609, 4.4021



30.2698, 30.1719, 27.4893



12.6305, 7.9747, 14.2112



6.9216, 6.8394, 6.0537



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.



12.0159, 9.8609, 4.4021



19.3151, 14.5612, 4.4199



15.3601, 16.5493, 5.5168



4.4287, 4.5461, 4.5642



9.5773, 6.0511, 0.6632



0.0000, 0.0000, 0.0000

Inverse Universe

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



10.2114, 12.1622, 22.2312



15.7960, 18.9159, 38.7749



7.2332, 6.2057, 21.2385



4.3369, 4.6677, 5.4857



7.3330, 8.4844, 21.5011



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.0157, 9.8604, 4.4019 looks on a white background.

Color Contrast Check

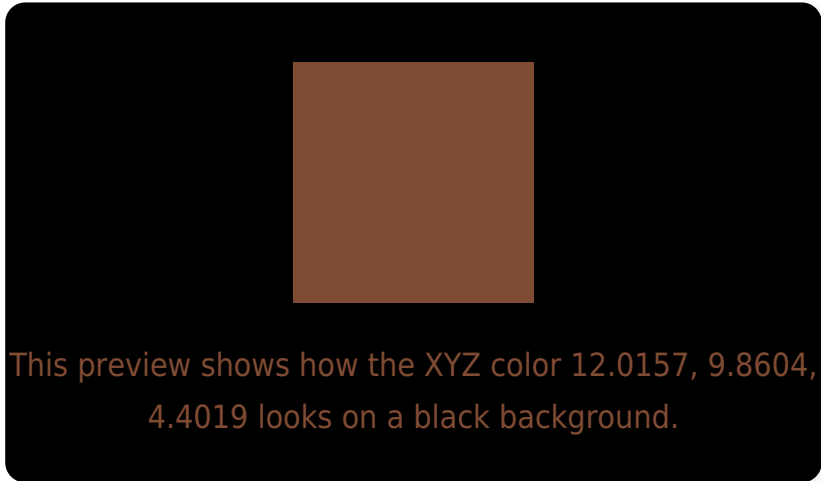
Large Text (above 18pt) WCAG AA ✓ Pass

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

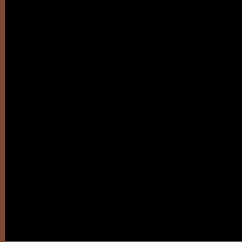
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.0157, 9.8604, 4.4019

Background



This preview shows how black text looks on a background with the XYZ color 12.0157, 9.8604, 4.4019.



This preview shows how white text looks on a background with the XYZ color 12.0157, 9.8604,

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

12.0157, 9.8604, 4.4019

Protanopia

9.2160, 9.9717, 5.1804

Deuteranopia

10.1096, 9.9700, 4.2973



Tritanopia

12.8628, 9.9164, 8.2573

Trichromacy



Original Color

12.0157, 9.8604, 4.4019

Protanomaly

10.0205, 9.7951, 4.8525

Deuteranomaly

10.7206, 9.8282, 4.3496

Tritanomaly

12.4792, 9.8496, 6.7123

Monochromacy



Original Color

12.0157, 9.8604, 4.4019

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

9.9568, 9.5781, 7.9806

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0157, 9.8604, 4.4019 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(128, 75, 51)` looks like.

```
.text, #text, p{  
    color:rgb(128, 75, 51)  
}
```

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(128, 75, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 75, 51) }
```

Border

The CSS property to change the border of an element to XYZ 12.0157, 9.8604, 4.4019 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(128, 75, 51) }
```


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

```
.border{ border-color:rgb(128, 75, 51) }
```

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

Here you see how a box with a 4 pixel rgb(128, 75, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 75, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 75, 51);  
box-shadow:4px 4px 4px 4px rgb(128, 75,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0157, 9.8604, 4.4019 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 75, 51) }
```

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

```
.background{ background-color: rgb(128, 75,  
51) }
```

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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