

Converting Colors

XYZ(12.9483, 17.1564, 18.1906)

Have a look what the booklet for
XYZ(12.9483, 17.1564, 18.1906)
contains.

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Color

**XYZ(12.9867, 17.2372,
18.2654)**

Conversions

Conversions Part 1

Format	Color
Hex	487D71
RGB	72, 125, 113
RGB Percent	28%, 49%, 44%
CMY	0.7176, 0.5098, 0.5569
CMYK	0.42, 0.00, 0.10, 0.51
HSL	166°, 27%, 39%
HSV	166°, 42%, 49%
XYZ	12.9867, 17.2372, 18.2654
YIQ	107.7850, -27.7360, -14.9680

Conversions

Conversions Part 2

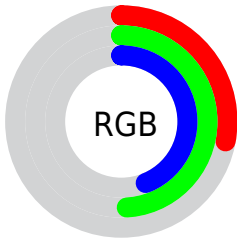
Format	Color
R_{YB}	72, 102, 125
Decimal	4750705
CIE _{Lab}	48.56, -20.74, 1.00
CIE _{LCh}	49, 20.762, 177.230
Yxy	17.2372, 0.2678, 0.3555
Android (android.graphics.Color)	4282940785 (0xFF487D71)
YUV	107.7850, 2.5710, -31.3834
Hunter-Lab	41.5177, -16.8214, 2.9782

Details

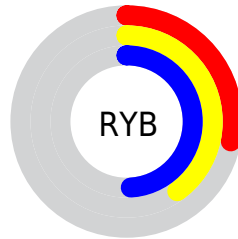
The XYZ color **12.9867, 17.2372, 18.2654** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.3756, 9.6352, 9.5956**, and the grayscale version is **14.1926, 14.9317, 16.2607**.

A 20% lighter version of the original color is **30.8803, 38.7684, 41.4528**, and **3.8271, 5.6993, 5.8994** is the 20% darker color. If you saturate the color by 10%, you get **11.9912, 16.7425, 17.4002**, and if you desaturate by 10%, it is **14.1777, 17.8329, 19.1665**.

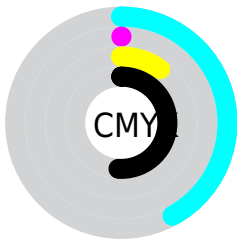
Distribution



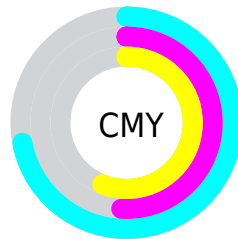
- Red (28%)
- Green (49%)
- Blue (44%)



- Red (28%)
- Yellow (40%)
- Blue (49%)



- Cyan (42%)
- Magenta (0%)
- Yellow (10%)
- Black (51%)



- Cyan (72%)
- Magenta (51%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9867, 17.2372, 18.2654 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 12.9867, 17.2372, 18.2654 by changing the saturation by 10% instead.

12.9867, 17.2372,
18.2654

12.9867, 17.2372,
18.2654

204.4717,
236.5356, 254.6489

7.4963, 10.4038,
10.9693

30.8814, 38.7332,
41.3091

3.8235, 5.6675,
5.9323

44.0164, 54.1645,
57.8937

1.6028, 2.6440,
2.7358

60.4304, 73.2305,
78.4116

0.3942, 0.9488,
0.9614

80.4887, 96.3157,
103.2813

0.0000, 0.0000,
0.0000

104.5566,
123.8044, 132.9214

132.9995,

156.0810, 167.7503

166.1828,
193.5299, 208.1866

■ 12.9867, 17.2372,
18.2654

■ 12.9867, 17.2372,
18.2654

■ 11.9912, 16.7425,
17.4002

■ 14.1777, 17.8329,
19.1665

■ 11.1780, 16.3409,
16.5688

■ 15.5734, 18.5331,
20.1030

■ 10.5349, 16.0264,
15.7709

■ 17.1840, 19.3436,
21.0759

■ 10.0472, 15.7914,
15.0055

■ 19.0188, 20.2690,
22.0860

■ 9.6977, 15.6271,
14.2716

■ 21.0865, 21.3139,
23.1338

■ 9.4775, 15.5253,
13.7325

■ 23.3952, 22.4824,
24.2200

■ 25.9528, 23.7786,
25.3451

■ 28.7666, 25.2064,
26.5097

■ 31.8439, 26.7693,
27.7144

Harmonies

Analogous

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



13.4893, 17.2372, 13.6383



12.9867, 17.2372, 18.2654



13.3342, 17.2372, 23.9959

Triad

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



12.9867, 17.2372, 18.2654



18.1194, 17.2372, 29.7416



18.4496, 17.2372, 11.2499

Complementary

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



12.9867, 17.2372, 18.2654



12.3756, 9.6352, 9.5956

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.



19.8654, 17.2372, 14.3612



12.9867, 17.2372, 18.2654



19.6645, 17.2372, 25.0464

Square

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



12.9867, 17.2372, 18.2654



16.2069, 17.2372, 31.3347



20.3261, 17.2372, 19.2805



16.5613, 17.2372, 10.1111

Rectangle

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



12.9867, 17.2372, 18.2654



14.0172, 17.2372, 27.5821



20.3261, 17.2372, 19.2805



19.0020, 17.2372, 12.0660

Sweetspot

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



12.9872, 17.2379, 18.2658



30.4910, 34.4971, 37.5783



12.1929, 17.0376, 8.7771



6.8076, 7.7824, 8.4727



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.9872, 17.2379, 18.2658



21.4994, 29.9940, 31.1835



12.0445, 14.1988, 21.5087



4.4061, 4.8708, 5.3096



9.8885, 16.2020, 14.3177



0.0000, 0.0000, 0.0000

Inverse Universe

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



12.3756, 9.6352, 9.5956



20.2549, 14.4376, 13.4772



12.9661, 11.5052, 7.6684



4.3646, 4.3590, 4.7244



9.0472, 4.6386, 1.5725



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.9867, 17.2372, 18.2654 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 12.9867, 17.2372, 18.2654 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

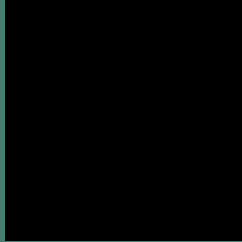
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9867, 17.2372, 18.2654

Background



This preview shows how black text looks on a background with the XYZ color 12.9867, 17.2372, 18.2654.

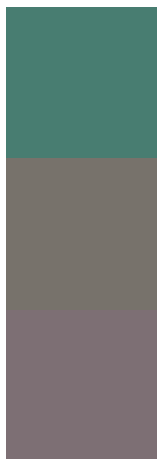


This preview shows how white text looks on a background with the XYZ color 12.9867, 17.2372,

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

12.9867, 17.2372, 18.2654

Protanopia

16.2789, 17.0181, 16.3367

Deuteranopia

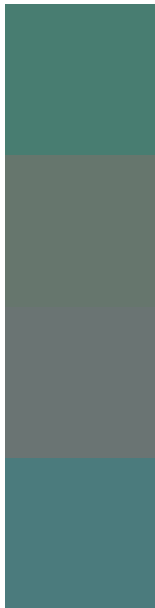
17.2943, 16.9898, 18.8909



Tritanopia

14.1850, 17.1628, 24.3949

Trichromacy



Original Color

12.9867, 17.2372, 18.2654

Protanomaly

14.7182, 16.8858, 16.9515

Deuteranomaly

15.2838, 16.7928, 18.6554

Tritanomaly

13.6863, 17.1424, 21.9895

Monochromacy



Original Color

12.9867, 17.2372, 18.2654

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.5511, 15.5933, 17.0474

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9867, 17.2372, 18.2654 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(72, 125, 113)` looks like.

```
.text, #text, p{  
    color:rgb(72, 125, 113)  
}
```

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(72, 125, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 125, 113) }
```

Border

The CSS property to change the border of an element to XYZ 12.9867, 17.2372, 18.2654 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(72, 125, 113) }
```


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

```
.border{ border-color:rgb(72, 125, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 125, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 125, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 125, 113);  
box-shadow:4px 4px 4px 4px rgb(72, 125,  
113) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9867, 17.2372, 18.2654 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 125, 113) }
```

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

```
.background{ background-color: rgb(72, 125,  
113) }
```

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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