

Converting Colors

XYZ(12.9341, 16.9245, 17.1002)

Have a look what the booklet for
XYZ(12.9341, 16.9245, 17.1002)
contains.

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Color

**XYZ(12.9038, 16.8478,
17.0398)**

Conversions

Conversions Part 1

Format	Color
Hex	4D7B6D
RGB	77, 123, 109
RGB Percent	30%, 48%, 43%
CMY	0.6980, 0.5176, 0.5725
CMYK	0.37, 0.00, 0.11, 0.52
HSL	162°, 23%, 39%
HSV	162°, 37%, 48%
XYZ	12.9038, 16.8478, 17.0398
YIQ	107.6500, -22.9220, -14.1060

Conversions

Conversions Part 2

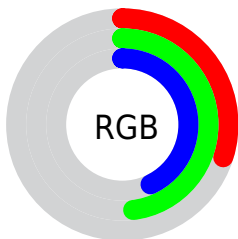
Format	Color
RYB	77, 104, 123
Decimal	5077869
CIELab	48.07, -19.18, 2.68
CIElCh	48, 19.362, 172.034
Yxy	16.8478, 0.2758, 0.3601
Android (android.graphics.Color)	4283267949 (0xFF4D7B6D)
YUV	107.6500, 0.6656, -26.8800
Hunter-Lab	41.0461, -15.7149, 4.1187

Details

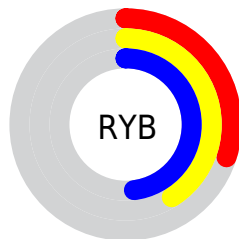
The XYZ color **12.9038, 16.8478, 17.0398** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.7111, 10.2744, 11.2113**, and the grayscale version is **14.1591, 14.8964, 16.2222**.

A 20% lighter version of the original color is **30.7726, 38.1779, 39.0049**, and **3.7972, 5.4922, 5.4174** is the 20% darker color. If you saturate the color by 10%, you get **11.8065, 16.3054, 15.9589**, and if you desaturate by 10%, it is **14.1983, 17.4918, 18.1755**.

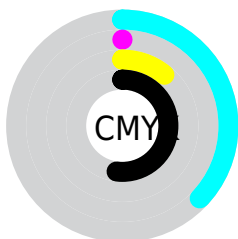
Distribution



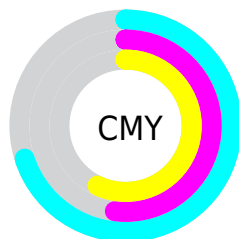
- Red (30%)
- Green (48%)
- Blue (43%)



- Red (30%)
- Yellow (41%)
- Blue (48%)



- Cyan (37%)
- Magenta (0%)
- Yellow (11%)
- Black (52%)



- Cyan (70%)
- Magenta (52%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9038, 16.8478, 17.0398 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 12.9038, 16.8478, 17.0398 by changing the saturation by 10% instead.

■ 12.9038, 16.8478,
17.0398

■ 12.9038, 16.8478,
17.0398

203.9503,
234.2938, 247.4533

■ 7.4389, 10.1260,
10.1006

■ 30.7336, 38.0639,
39.1858

■ 3.7868, 5.4826,
5.3592

■ 43.8293, 53.3270,
55.2297

■ 1.5822, 2.5331,
2.3971

■ 60.1992, 72.2061,
75.1455

■ 0.3808, 0.8932,
0.7849

■ 80.2087, 95.0854,
99.3519

■ 0.0000, 0.0000,
0.0000

■ 104.2232,
122.3495, 128.2673

132.6081,

154.3826, 162.3103

165.7287,
191.5692, 201.8995

■ 12.9038, 16.8478,
17.0398

■ 12.9038, 16.8478,
17.0398

■ 11.8065, 16.3054,
15.9589

■ 14.1983, 17.4918,
18.1755

■ 10.8943, 15.8569,
14.9306

■ 15.6986, 18.2404,
19.3657

■ 10.1560, 15.4971,
13.9542

■ 17.4142, 19.0991,
20.6120

■ 9.5782, 15.2192,
13.0284

■ 19.3539, 20.0721,
21.9152

■ 9.1460, 15.0153,
12.1520

■ 21.5257, 21.1639,
23.2761

■ 8.8248, 14.8677,
11.3227

■ 23.9374, 22.3782,
24.6958

■ 8.7454, 14.8314,
11.1140

■ 26.5964, 23.7190,
26.1749

■ 29.5097, 25.1898,
27.7144

■ 32.6842, 26.7942,
29.3150

Harmonies

Analogous

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



13.5019, 16.8478, 13.0269



12.9038, 16.8478, 17.0398



13.0896, 16.8478, 22.2066

Triad

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



12.9038, 16.8478, 17.0398



17.3105, 16.8478, 28.8179



18.1761, 16.8478, 11.7418

Complementary

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



12.9038, 16.8478, 17.0398



12.7111, 10.2744, 11.2113

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.



19.3429, 16.8478, 14.9581



12.9038, 16.8478, 17.0398



18.8183, 16.8478, 24.9418

Square

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



12.9038, 16.8478, 17.0398



15.5511, 16.8478, 29.6523



19.5861, 16.8478, 19.7139



16.4847, 16.8478, 10.3534

Rectangle

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



12.9038, 16.8478, 17.0398



13.6396, 16.8478, 25.5912



19.5861, 16.8478, 19.7139



18.6477, 16.8478, 12.6137

Sweetspot

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



12.9043, 16.8485, 17.0402



29.9470, 33.5810, 36.0333



12.7935, 16.9555, 9.6198



6.9737, 7.8691, 8.4290



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.



12.9043, 16.8485, 17.0402



21.3766, 29.3135, 28.8221



12.7176, 15.1713, 20.9977



4.0576, 4.4926, 4.8370



9.0443, 15.3414, 11.4839



42.7499, 73.0230, 52.7144

Inverse Universe

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



12.7111, 10.2744, 11.2113



20.9808, 15.7127, 16.7823



12.7911, 11.3126, 8.5308



4.0439, 4.0333, 4.4288



8.8005, 4.4964, 2.2404



41.6419, 21.3131, 8.9105

Previews

White Background



This preview shows how the XYZ color 12.9038, 16.8478, 17.0398 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 12.9038, 16.8478, 17.0398 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 12.9038, 16.8478, 17.0398

Background



This preview shows how black text looks on a background with the XYZ color 12.9038, 16.8478, 17.0398.

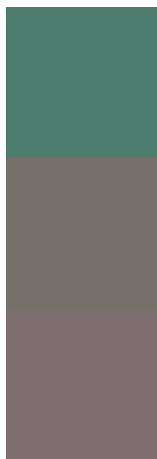


This preview shows how white text looks on a background with the XYZ color 12.9038, 16.8478,

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

12.9038, 16.8478, 17.0398

Protanopia

15.8750, 16.6613, 15.4759

Deuteranopia

16.9580, 16.6817, 17.6553



Tritanopia

14.2254, 16.8385, 23.6195

Trichromacy



Original Color

12.9038, 16.8478, 17.0398

Protanomaly

14.5563, 16.6468, 16.0816

Deuteranomaly

15.1843, 16.5973, 17.4422

Tritanomaly

13.6585, 16.7854, 20.9324

Monochromacy



Original Color

12.9038, 16.8478, 17.0398

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.5417, 15.4344, 16.4528

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9038, 16.8478, 17.0398 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(77, 123, 109)` looks like.

```
.text, #text, p{  
    color:rgb(77, 123, 109)  
}
```

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(77, 123, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 123, 109) }
```

Border

The CSS property to change the border of an element to XYZ 12.9038, 16.8478, 17.0398 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(77, 123, 109) }
```


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

```
.border{ border-color:rgb(77, 123, 109) }
```

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

Here you see how a box with a 4 pixel rgb(77, 123, 109) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 123, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 123, 109);  
box-shadow:4px 4px 4px 4px rgb(77, 123,  
109) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9038, 16.8478, 17.0398 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 123, 109) }
```

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

```
.background{ background-color: rgb(77, 123,  
109) }
```

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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