

Converting Colors

XYZ(10.0133, 12.9584, 12.9440)

Have a look what the booklet for
XYZ(10.0133, 12.9584, 12.9440)
contains.

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Color

**XYZ(9.9997, 12.8717,
13.0238)**

Conversions

Conversions Part 1

Format	Color
Hex	466C60
RGB	70, 108, 96
RGB Percent	27%, 42%, 38%
CMY	0.7255, 0.5765, 0.6235
CMYK	0.35, 0.00, 0.11, 0.58
HSL	161°, 21%, 35%
HSV	161°, 35%, 42%
XYZ	9.9997, 12.8717, 13.0238
YIQ	95.2700, -18.7960, -11.7880

Conversions

Conversions Part 2

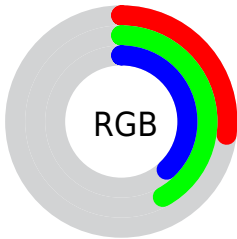
Format	Color
R_{YB}	70, 93, 108
Decimal	4615264
CIE _{Lab}	42.57, -16.41, 2.44
CIE _{LCh}	43, 16.594, 171.547
Yxy	12.8717, 0.2786, 0.3586
Android (android.graphics.Color)	4282805344 (0xFF466C60)
YUV	95.2700, 0.3599, -22.1618
Hunter-Lab	35.8772, -13.0334, 3.5911

Details

The XYZ color **9.9997, 12.8717, 13.0238** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **9.8980, 8.1781, 9.0401**, and the grayscale version is **10.9447, 11.5147, 12.5395**.

A 20% lighter version of the original color is **25.5048, 31.2100, 31.8740**, and **2.5449, 3.6442, 3.5869** is the 20% darker color. If you saturate the color by 10%, you get **9.1361, 12.4446, 12.1815**, and if you desaturate by 10%, it is **11.0111, 13.3749, 13.9091**.

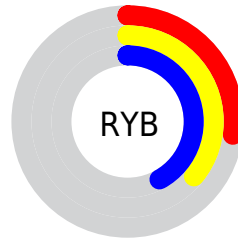
Distribution



Red (27%)

Green (42%)

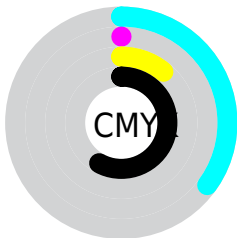
Blue (38%)



Red (27%)

Yellow (36%)

Blue (42%)

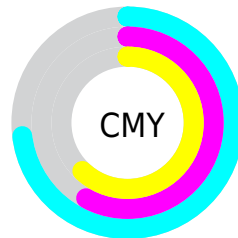


Cyan (35%)

Magenta (0%)

Yellow (11%)

Black (58%)



Cyan (73%)

Magenta (58%)

Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 9.9997, 12.8717, 13.0238 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 9.9997, 12.8717, 13.0238 by changing the saturation by 10% instead.

■ 9.9997, 12.8717,
13.0238

■ 9.9997, 12.8717,
13.0238

184.7236,
210.0938, 222.2833

■ 5.4610, 7.3403,
7.3140

■ 25.4446, 31.0731,
32.0383

■ 2.5577, 3.6758,
3.5778

■ 37.0816, 44.5118,
46.1802

■ 0.9245, 1.4939,
1.3967

■ 51.8153, 61.3551,
63.9698

■ 0.0000, 0.2844,
0.1392

■ 70.0112, 81.9874,
85.8257

■ 0.0000, 0.0000,
0.0000

■ 92.0347, 106.7930,
112.1665

118.2510,

136.1563, 143.4107

149.0255,
170.4618, 179.9768

■ 9.9997, 12.8717,
13.0238

■ 9.9997, 12.8717,
13.0238

■ 9.1361, 12.4446,
12.1815

■ 11.0111, 13.3749,
13.9091

■ 8.4114, 12.0880,
11.3806

■ 12.1761, 13.9561,
14.8374

■ 7.8179, 11.7982,
10.6205

■ 13.5017, 14.6193,
15.8096

■ 7.3462, 11.5705,
9.9003

■ 14.9941, 15.3677,
16.8265

■ 6.9858, 11.3994,
9.2191

■ 16.6591, 16.2043,
17.8888

■ 6.7163, 11.2744,
8.5754

■ 18.5024, 17.1319,
18.9971

■ 6.5952, 11.2185,
8.2775

■ 20.5291, 18.1533,
20.1521

■ 22.7445, 19.2710,
21.3544

■ 25.1533, 20.4877,
22.6046

Harmonies

Analogous

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



10.4405, 12.8717, 10.1426



9.9997, 12.8717, 13.0238



10.1247, 12.8717, 16.7088

Triad

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



9.9997, 12.8717, 13.0238



13.1417, 12.8717, 21.4736



13.7966, 12.8717, 9.2709

Complementary

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



9.9997, 12.8717, 13.0238



9.8980, 8.1781, 9.0401

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.



14.6180, 12.8717, 11.6277



9.9997, 12.8717, 13.0238



14.2223, 12.8717, 18.7657

Square

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



9.9997, 12.8717, 13.0238



11.8830, 12.8717, 22.0201



14.7789, 12.8717, 15.0555



12.5922, 12.8717, 8.2317

Rectangle

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



9.9997, 12.8717, 13.0238



10.5160, 12.8717, 19.1150



14.7789, 12.8717, 15.0555



14.1300, 12.8717, 9.9140

Sweetspot

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



10.0001, 12.8722, 13.0241



22.2460, 24.9359, 26.7020



9.9511, 12.9632, 7.7724



5.3305, 6.0086, 6.4229



54.2243, 57.0482, 62.1254



6.0569, 6.3724, 6.9395

Same Dimension

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



10.0001, 12.8722, 13.0241



16.3286, 21.9903, 21.6818



9.8899, 11.6991, 15.9248



3.1431, 3.4764, 3.7375



7.8537, 13.3756, 9.8067



39.6122, 67.9920, 47.8325

Inverse Universe

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



9.8980, 8.1781, 9.0401



16.1233, 12.4526, 13.5972



9.9418, 8.9339, 6.9951



3.1355, 3.1311, 3.4439



7.7111, 3.9366, 2.1074



38.9370, 19.9168, 8.8711

Previews

White Background



This preview shows how the XYZ color 9.9997, 12.8717, 13.0238 looks on a white background.

Color Contrast Check

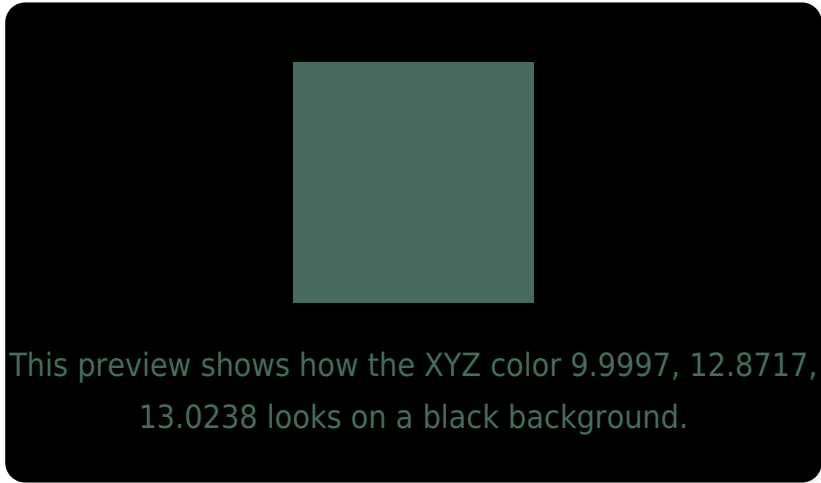
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



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 9.9997, 12.8717, 13.0238

Background



This preview shows how black text looks on a background with the XYZ color 9.9997, 12.8717, 13.0238.



This preview shows how white text looks on a background with the XYZ color 9.9997, 12.8717,

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

9.9997, 12.8717, 13.0238

Protanopia

12.1979, 12.8301, 11.9588

Deuteranopia

12.9097, 12.7462, 13.3351



Tritanopia

10.9129, 12.7739, 17.8100

Trichromacy



Original Color

9.9997, 12.8717, 13.0238

Protanomaly

11.2397, 12.7661, 12.2276

Deuteranomaly

11.5307, 12.6033, 13.1342

Tritanomaly

10.5555, 12.7861, 15.8215

Monochromacy



Original Color

9.9997, 12.8717, 13.0238

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

10.4605, 11.9190, 12.5757

CSS Examples

Text

The CSS property to change the color of the text to XYZ 9.9997, 12.8717, 13.0238 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(70, 108, 96) looks like.

```
.text, #text, p{  
    color:rgb(70, 108, 96)  
}
```

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(70, 108, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 108, 96) }
```

Border

The CSS property to change the border of an element to XYZ 9.9997, 12.8717, 13.0238 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(70, 108, 96) }
```


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

```
.border{ border-color:rgb(70, 108, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 108, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 108, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 108, 96);  
box-shadow:4px 4px 4px 4px rgb(70, 108,  
96) }
```

Background

The CSS property to change the background color of an element to XYZ 9.9997, 12.8717, 13.0238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 108, 96) }
```

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

```
.background{ background-color: rgb(70, 108,  
96) }
```

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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