

Converting Colors

XYZ(12.7881, 15.9680, 13.3784)

Have a look what the booklet for
XYZ(12.7881, 15.9680, 13.3784)
contains.

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Color

**XYZ(12.8062, 15.9751,
13.4749)**

Conversions

Conversions Part 1

Format	Color
Hex	5A7660
RGB	90, 118, 96
RGB Percent	35%, 46%, 38%
CMY	0.6471, 0.5372, 0.6235
CMYK	0.24, 0.00, 0.19, 0.54
HSL	133°, 13%, 41%
HSV	133°, 24%, 46%
XYZ	12.8062, 15.9751, 13.4749
YIQ	107.1200, -9.6260, -12.7780

Conversions

Conversions Part 2

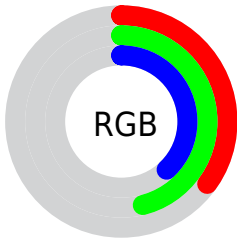
Format	Color
R_{YB}	90, 113, 118
Decimal	5928544
CIE _{Lab}	46.94, -14.97, 8.85
CIE _{LCh}	47, 17.394, 149.404
Yxy	15.9751, 0.3031, 0.3781
Android (android.graphics.Color)	4284118624 (0xFF5A7660)
YUV	107.1200, -5.4822, -15.0142
Hunter-Lab	39.9689, -12.7533, 7.9895

Details

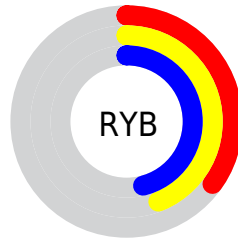
The XYZ color **12.8062, 15.9751, 13.4749** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **14.0526, 12.3340, 16.9699**, and the grayscale version is **14.0254, 14.7558, 16.0691**.

A 20% lighter version of the original color is **30.6257, 36.5188, 33.0384**, and **3.7621, 5.1242, 3.8084** is the 20% darker color. If you saturate the color by 10%, you get **11.3463, 15.2694, 11.3083**, and if you desaturate by 10%, it is **14.4995, 16.7962, 15.9160**.

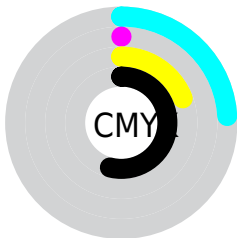
Distribution



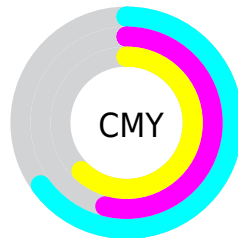
- Red (35%)
- Green (46%)
- Blue (38%)



- Red (35%)
- Yellow (44%)
- Blue (46%)



- Cyan (24%)
- Magenta (0%)
- Yellow (19%)
- Black (54%)



- Cyan (65%)
- Magenta (54%)
- Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8062, 15.9751, 13.4749 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 12.8062, 15.9751, 13.4749 by changing the saturation by 10% instead.

■ 12.8062, 15.9751,
13.4749

■ 12.8062, 15.9751,
13.4749

203.3347,
229.1947, 225.2529

■ 7.3713, 9.5065,
7.6218

■ 30.5595, 36.5550,
32.8580

■ 3.7438, 5.0730,
3.7696

■ 43.6085, 51.4351,
47.2250

■ 1.5582, 2.2902,
1.4998

■ 59.9264, 69.8878,
65.2672

■ 0.3649, 0.7685,
0.2178

■ 79.8784, 92.2976,
87.4029

■ 0.0000, 0.0000,
0.0000

■ 103.8298,
119.0487, 114.0508

132.1461,

150.5257, 145.6294

165.1926,
187.1129, 182.5573

■ 12.8062, 15.9751,
13.4749

■ 12.8062, 15.9751,
13.4749

■ 11.3463, 15.2694,
11.3083

■ 14.4995, 16.7962,
15.9160

■ 10.1084, 14.6720,
9.4055

■ 16.4347, 17.7356,
18.6396

■ 9.0816, 14.1781,
7.7567

■ 18.6214, 18.7984,
21.6548

■ 8.2538, 13.7817,
6.3512

■ 21.0681, 19.9888,
24.9698

■ 7.6119, 13.4761,
5.1774

■ 23.7830, 21.3111,
28.5927

■ 7.1406, 13.2537,
4.2227

■ 26.7741, 22.7690,
32.5311

■ 6.8200, 13.1047,
3.4733

■ 30.0489, 24.3663,
36.7924

■ 6.6574, 13.0290,
3.1000

■ 33.6147, 26.1066,
41.3838

■ 37.4784, 27.9933,
46.3122

Harmonies

Analogous

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



13.7947, 15.9751, 11.0778



12.8062, 15.9751, 13.4749



12.4468, 15.9751, 17.3072

Triad

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



12.8062, 15.9751, 13.4749



15.1535, 15.9751, 27.1697



17.8728, 15.9751, 13.6025

Complementary

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



12.8062, 15.9751, 13.4749



14.0526, 12.3340, 16.9699

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.



18.2953, 15.9751, 17.4814



12.8062, 15.9751, 13.4749



16.6633, 15.9751, 25.7455

Square

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



12.8062, 15.9751, 13.4749



13.7454, 15.9751, 25.6325



17.8390, 15.9751, 22.0080



16.7194, 15.9751, 11.1423

Rectangle

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



12.8062, 15.9751, 13.4749



12.5925, 15.9751, 20.3234



17.8390, 15.9751, 22.0080



18.1083, 15.9751, 14.7609

Sweetspot

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



12.8066, 15.9758, 13.4753



27.6753, 30.5905, 31.0665



15.0577, 17.1669, 12.1929



6.3320, 7.0182, 7.0992



57.3938, 60.3827, 65.7568



6.9614, 7.3239, 7.9757

Same Dimension

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



12.8066, 15.9758, 13.4753



21.1918, 27.4478, 21.7412



13.4881, 16.2484, 17.0639



3.6698, 4.1099, 4.0950



7.1978, 14.0931, 3.3317



34.8099, 68.5712, 14.8360

Inverse Universe

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



14.0526, 12.3340, 16.9699



23.7503, 19.9668, 28.9156



13.3514, 12.0536, 13.2777



3.7946, 3.7451, 4.4454



10.2020, 5.0145, 11.5377



49.3920, 24.3069, 54.5210

Previews

White Background



This preview shows how the XYZ color 12.8062, 15.9751, 13.4749 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 12.8062, 15.9751, 13.4749 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 12.8062, 15.9751, 13.4749

Background



This preview shows how black text looks on a background with the XYZ color 12.8062, 15.9751, 13.4749.



This preview shows how white text looks on a background with the XYZ color 12.8062, 15.9751,

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

12.8062, 15.9751, 13.4749

Protanopia

14.9523, 15.9235, 12.4107

Deuteranopia

16.0665, 15.8329, 13.7645



Tritanopia

14.3118, 15.8976, 21.0531

Trichromacy



Original Color

12.8062, 15.9751, 13.4749

Protanomaly

14.0565, 15.9507, 12.6939

Deuteranomaly

14.6522, 15.7427, 13.5756

Tritanomaly

13.6256, 15.7809, 17.9507

Monochromacy



Original Color

12.8062, 15.9751, 13.4749

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.4994, 15.1149, 15.0379

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8062, 15.9751, 13.4749 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(90, 118, 96) looks like.

```
.text, #text, p{  
    color:rgb(90, 118, 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(90, 118, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 118, 96) }
```

Border

The CSS property to change the border of an element to XYZ 12.8062, 15.9751, 13.4749 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(90, 118, 96) }
```


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

```
.border{ border-color:rgb(90, 118, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 118, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 118, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 118, 96);  
box-shadow:4px 4px 4px 4px rgb(90, 118,  
96) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8062, 15.9751, 13.4749 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 118, 96) }
```

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

```
.background{ background-color: rgb(90, 118,  
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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