

Converting Colors

XYZ(12.8043, 16.8387, 14.7854)

Have a look what the booklet for
XYZ(12.8043, 16.8387, 14.7854)
contains.

XYZ(12.8253, 16.8548, 14.8893)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.8253, 16.8548,
14.8893)**

Conversions

Conversions Part 1

Format	Color
Hex	517B65
RGB	81, 123, 101
RGB Percent	32%, 48%, 40%
CMY	0.6823, 0.5176, 0.6039
CMYK	0.34, 0.00, 0.18, 0.52
HSL	149°, 21%, 40%
HSV	149°, 34%, 48%
XYZ	12.8253, 16.8548, 14.8893
YIQ	107.9340, -17.9700, -15.7460

Conversions

Conversions Part 2

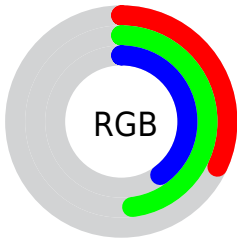
Format	Color
R_{YB}	81, 109, 123
Decimal	5340005
CIE _{Lab}	48.08, -19.74, 7.44
CIE _{LCh}	48, 21.091, 159.350
Yxy	16.8548, 0.2878, 0.3782
Android (android.graphics.Color)	4283530085 (0xFF517B65)
YUV	107.9340, -3.4185, -23.6211
Hunter-Lab	41.0546, -16.0828, 7.2355

Details

The XYZ color **12.8253, 16.8548, 14.8893** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **13.5596, 11.0756, 14.2559**, and the grayscale version is **14.2486, 14.9907, 16.3248**.

A 20% lighter version of the original color is **30.7085, 38.2232, 35.4651**, and **3.7418, 5.4872, 4.3520** is the 20% darker color. If you saturate the color by 10%, you get **11.5619, 16.2390, 13.2465**, and if you desaturate by 10%, it is **14.3054, 17.5803, 16.6722**.

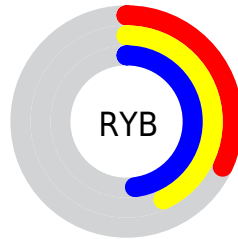
Distribution



Red (32%)

Green (48%)

Blue (40%)



Red (32%)

Yellow (43%)

Blue (48%)

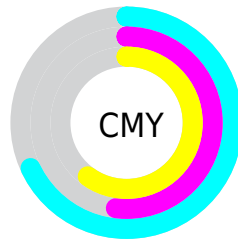


Cyan (34%)

Magenta (0%)

Yellow (18%)

Black (52%)



Cyan (68%)

Magenta (52%)

Yellow (60%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8253, 16.8548, 14.8893 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 12.8253, 16.8548, 14.8893 by changing the saturation by 10% instead.

■ 12.8253, 16.8548,
14.8893

■ 12.8253, 16.8548,
14.8893

203.4553,
234.3342, 234.3129

■ 7.3845, 10.1310,
8.5960

■ 30.5936, 38.0760,
35.3984

■ 3.7522, 5.4859,
4.3854

■ 43.6518, 53.3421,
50.4513

■ 1.5629, 2.5351,
1.8391

■ 59.9798, 72.2245,
69.2611

■ 0.3681, 0.8941,
0.4535

■ 79.9431, 95.1076,
92.2463

■ 0.0000, 0.0000,
0.0000

■ 103.9069,
122.3757, 119.8256

132.2366,

154.4133, 152.4174

165.2976,
191.6046, 190.4403

■ 12.8253, 16.8548,
14.8893

■ 12.8253, 16.8548,
14.8893

■ 11.5619, 16.2390,
13.2465

■ 14.3054, 17.5803,
16.6722

■ 10.5029, 15.7253,
11.7392

■ 16.0108, 18.4187,
18.5974

■ 9.6368, 15.3084,
10.3642

■ 17.9515, 19.3753,
20.6684

■ 8.9506, 14.9815,
9.1176

■ 20.1363, 20.4548,
22.8884

■ 8.4292, 14.7370,
7.9956

■ 22.5737, 21.6613,
25.2604

■ 8.0523, 14.5645,
6.9936

■ 25.2717, 22.9990,
27.7872

■ 7.8615, 14.4778,
6.4596

■ 28.2378, 24.4718,
30.4717

■ 31.4795, 26.0833,
33.3166

■ 35.0037, 27.8372,
36.3246

Harmonies

Analogous

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



13.8038, 16.8548, 11.3651



12.8253, 16.8548, 14.8893



12.6647, 16.8548, 20.1132

Triad

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



12.8253, 16.8548, 14.8893



16.6237, 16.8548, 30.7993



19.0288, 16.8548, 12.4618

Complementary

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



12.8253, 16.8548, 14.8893



13.5596, 11.0756, 14.2559

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.



19.9210, 16.8548, 16.6968



12.8253, 16.8548, 14.8893



18.4615, 16.8548, 27.7387

Square

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



12.8253, 16.8548, 14.8893



14.7603, 16.8548, 30.0491



19.7055, 16.8548, 22.3138



17.3494, 16.8548, 10.1690

Rectangle

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



12.8253, 16.8548, 14.8893



13.0292, 16.8548, 24.0009



19.7055, 16.8548, 22.3138



19.4366, 16.8548, 13.6673

Sweetspot

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



12.8258, 16.8555, 14.8897



29.9746, 33.6244, 34.7170



14.2083, 17.6680, 10.4464



6.9663, 7.8732, 8.0761



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.



12.8258, 16.8555, 14.8897



21.1560, 29.2991, 24.3287



13.9650, 17.3112, 20.8888



4.0229, 4.4788, 4.6547



8.1297, 14.9755, 6.6677



38.3548, 71.2649, 29.5700

Inverse Universe

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



13.5596, 11.0756, 14.2559



22.6817, 17.2788, 23.0085



12.6496, 10.7116, 9.4639



4.0778, 4.0468, 4.6074



9.4174, 4.7431, 5.4892



44.4894, 22.4521, 23.9051

Previews

White Background



This preview shows how the XYZ color 12.8253, 16.8548, 14.8893 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 12.8253, 16.8548, 14.8893 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 12.8253, 16.8548, 14.8893

Background



This preview shows how black text looks on a background with the XYZ color 12.8253, 16.8548, 14.8893.



This preview shows how white text looks on a background with the XYZ color 12.8253, 16.8548,

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

12.8253, 16.8548, 14.8893

Protanopia

15.7622, 16.6479, 13.4489

Deuteranopia

16.9767, 16.7405, 15.4332



Tritanopia

14.4898, 16.8049, 23.2489

Trichromacy



Original Color

12.8253, 16.8548, 14.8893

Protanomaly

14.5098, 16.6686, 14.0079

Deuteranomaly

15.1345, 16.6202, 15.2423

Tritanomaly

13.7926, 16.6961, 19.9485

Monochromacy



Original Color

12.8253, 16.8548, 14.8893

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.4919, 15.4268, 15.6312

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8253, 16.8548, 14.8893 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(81, 123, 101)` looks like.

```
.text, #text, p{  
    color:rgb(81, 123, 101)  
}
```

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(81, 123, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 123, 101) }
```

Border

The CSS property to change the border of an element to XYZ 12.8253, 16.8548, 14.8893 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(81, 123, 101) }
```


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

```
.border{ border-color:rgb(81, 123, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(81, 123, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 123, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 123, 101);  
box-shadow:4px 4px 4px 4px rgb(81, 123,  
101) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8253, 16.8548, 14.8893 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 123, 101) }
```

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

```
.background{ background-color: rgb(81, 123,  
101) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor