

Converting Colors

XYZ(12.8667, 18.3526, 13.5058)

Have a look what the booklet for
XYZ(12.8667, 18.3526, 13.5058)
contains.

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Color

**XYZ(12.8843, 18.4572,
13.4732)**

Conversions

Conversions Part 1

Format	Color
Hex	49835E
RGB	73, 131, 94
RGB Percent	29%, 51%, 37%
CMY	0.7137, 0.4863, 0.6314
CMYK	0.44, 0.00, 0.28, 0.49
HSL	142°, 28%, 40%
HSV	142°, 44%, 51%
XYZ	12.8843, 18.4572, 13.4732
YIQ	109.4400, -22.6910, -23.8030

Conversions

Conversions Part 2

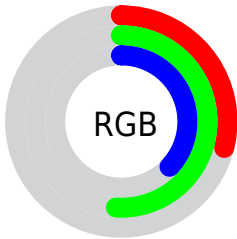
Format	Color
RYB	73, 116, 131
Decimal	4817758
CIELab	50.05, -27.83, 14.21
CIELCh	50, 31.250, 152.954
Yxy	18.4572, 0.2875, 0.4119
Android (android.graphics.Color)	4283007838 (0xFF49835E)
YUV	109.4400, -7.6119, -31.9579
Hunter-Lab	42.9618, -21.6509, 11.4794

Details

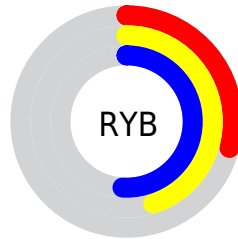
The XYZ color **12.8843, 18.4572, 13.4732** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **14.5576, 10.7165, 16.0536**, and the grayscale version is **14.6869, 15.4518, 16.8270**.

A 20% lighter version of the original color is **30.7088, 40.6853, 33.0226**, and **3.7852, 6.2577, 3.8047** is the 20% darker color. If you saturate the color by 10%, you get **11.6395, 17.8570, 11.5624**, and if you desaturate by 10%, it is **14.3798, 19.1830, 15.6085**.

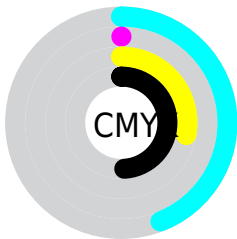
Distribution



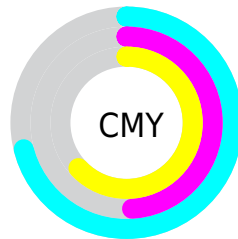
- Red (29%)
- Green (51%)
- Blue (37%)



- Red (29%)
- Yellow (45%)
- Blue (51%)



- Cyan (44%)
- Magenta (0%)
- Yellow (28%)
- Black (49%)



- Cyan (71%)
- Magenta (49%)
- Yellow (63%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8843, 18.4572, 13.4732 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 12.8843, 18.4572, 13.4732 by changing the saturation by 10% instead.

■ 12.8843, 18.4572,
13.4732

■ 12.8843, 18.4572,
13.4732

203.8274,
243.4356, 225.2418

■ 7.4254, 11.2787,
7.6207

■ 30.6989, 40.8149,
32.8549

■ 3.7782, 6.2546,
3.7689

■ 43.7852, 56.7628,
47.2211

■ 1.5774, 3.0005,
1.4994

■ 60.1447, 76.4028,
65.2623

■ 0.3776, 1.1320,
0.2175

■ 80.1428, 100.1190,
87.3970

■ 0.0000, 0.0051,
0.0000

■ 104.1447,
128.2961, 114.0438

■ 0.0000, 0.0000,
0.0000

132.5159,

161.3182, 145.6211

165.6217,
199.5699, 182.5476

■ 12.8843, 18.4572,
13.4732

■ 12.8843, 18.4572,
13.4732

■ 11.6395, 17.8570,
11.5624

■ 14.3798, 19.1830,
15.6085

■ 10.6295, 17.3728,
9.8675

■ 16.1378, 20.0387,
17.9742

■ 9.8385, 16.9971,
8.3811

■ 18.1713, 21.0315,
20.5774

■ 9.2483, 16.7207,
7.0948

■ 20.4917, 22.1671,
23.4244

■ 8.8352, 16.5316,
5.9996

■ 23.1099, 23.4510,
26.5216

■ 8.6385, 16.4420,
5.4536

■ 26.0362, 24.8884,
29.8749

■ 29.2805, 26.4842,
33.4900

■ 32.8520, 28.2431,
37.3725

■ 36.7598, 30.1697,
41.5279

Harmonies

Analogous

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



14.5844, 18.4572, 9.1650



12.8843, 18.4572, 13.4732



12.3829, 18.4572, 20.9615

Triad

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



12.8843, 18.4572, 13.4732



17.8424, 18.4572, 41.5622



22.8509, 18.4572, 12.3734

Complementary

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



12.8843, 18.4572, 13.4732



14.5576, 10.7165, 16.0536

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.



23.9681, 18.4572, 19.2561



12.8843, 18.4572, 13.4732



20.8770, 18.4572, 37.4225

Square

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



12.8843, 18.4572, 13.4732



15.0450, 18.4572, 38.7278



23.2078, 18.4572, 28.5979



20.3032, 18.4572, 8.6691

Rectangle

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



12.8843, 18.4572, 13.4732



12.7429, 18.4572, 27.2645



23.2078, 18.4572, 28.5979



23.4186, 18.4572, 14.3102

Sweetspot

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



12.8848, 18.4580, 13.4736



32.9220, 37.8483, 37.3261



15.8374, 20.0745, 9.3435



7.4884, 8.7256, 8.4692



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.8848, 18.4580, 13.4736



20.8536, 31.9819, 20.7219



14.3960, 19.0624, 21.4314



4.6808, 5.2306, 5.3305



8.5041, 16.1845, 5.3742



0.0327, 0.0574, 0.0359

Inverse Universe

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



14.5576, 10.7165, 16.0536



24.2447, 16.2592, 25.9298



13.2547, 10.1953, 9.1924



4.7882, 4.7350, 5.4971



10.7735, 5.3737, 8.6456



0.0408, 0.0200, 0.0484

Previews

White Background



This preview shows how the XYZ color 12.8843, 18.4572, 13.4732 looks on a white 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

Black Background



This preview shows how the XYZ color 12.8843, 18.4572, 13.4732 looks on a black 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

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

XYZ 12.8843, 18.4572, 13.4732

Background



This preview shows how black text looks on a background with the XYZ color 12.8843, 18.4572, 13.4732.



This preview shows how white text looks on a background with the XYZ color 12.8843, 18.4572,

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

12.8843, 18.4572, 13.4732

Protanopia

16.9923, 18.1735, 11.8448

Deuteranopia

18.5384, 18.2348, 14.0979



Tritanopia

15.4721, 18.5383, 26.0553

Trichromacy



Original Color

12.8843, 18.4572, 13.4732

Protanomaly

14.9918, 18.0299, 12.3628

Deuteranomaly

15.8136, 17.8734, 13.9257

Tritanomaly

14.3948, 18.4811, 20.8977

Monochromacy



Original Color

12.8843, 18.4572, 13.4732

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

13.6839, 16.2089, 15.5041

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8843, 18.4572, 13.4732 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(73, 131, 94)` looks like.

```
.text, #text, p{  
    color:rgb(73, 131, 94)  
}
```

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(73, 131, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 131, 94) }
```

Border

The CSS property to change the border of an element to XYZ 12.8843, 18.4572, 13.4732 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(73, 131, 94) }
```


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

```
.border{ border-color:rgb(73, 131, 94) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 131, 94)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 131, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 131, 94);  
box-shadow:4px 4px 4px 4px rgb(73, 131,  
94) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8843, 18.4572, 13.4732 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 131, 94) }
```

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

```
.background{ background-color: rgb(73, 131,  
94) }
```

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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