

Converting Colors

XYZ(12.8859, 19.5652, 18.4949)

Have a look what the booklet for
XYZ(12.8859, 19.5652, 18.4949)
contains.

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Color

**XYZ(12.8666, 19.5748,
18.4294)**

Conversions

Conversions Part 1

Format	Color
Hex	2B8970
RGB	43, 137, 112
RGB Percent	17%, 54%, 44%
CMY	0.8314, 0.4627, 0.5608
CMYK	0.69, 0.00, 0.18, 0.46
HSL	164°, 52%, 35%
HSV	164°, 69%, 54%
XYZ	12.8666, 19.5748, 18.4294
YIQ	106.0440, -47.9990, -27.7030

Conversions

Conversions Part 2

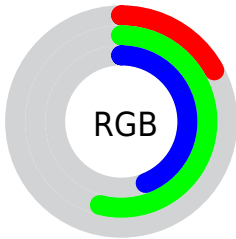
Format	Color
RYB	43, 97, 137
Decimal	2853232
CIELab	51.35, -33.58, 5.49
CIELCh	51, 34.030, 170.709
Yxy	19.5748, 0.2529, 0.3848
Android (android.graphics.Color)	4281043312 (0xFF2B8970)
YUV	106.0440, 2.9363, -55.2896
Hunter-Lab	44.2434, -25.5157, 6.2734

Details

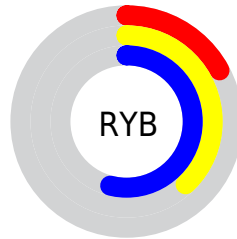
The XYZ color **12.8666, 19.5748, 18.4294** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **12.2245, 7.4641, 6.2662**, and the grayscale version is **13.7139, 14.4281, 15.7122**.

A 20% lighter version of the original color is **30.6985, 42.7086, 41.7476**, and **4.2532, 7.0257, 5.9824** is the 20% darker color. If you saturate the color by 10%, you get **12.1872, 19.2480, 17.3601**, and if you desaturate by 10%, it is **13.7483, 20.0059, 19.5519**.

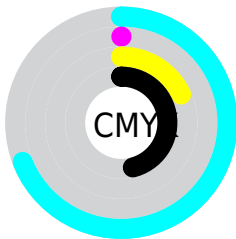
Distribution



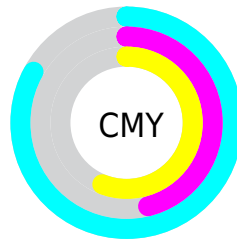
- Red (17%)
- Green (54%)
- Blue (44%)



- Red (17%)
- Yellow (38%)
- Blue (54%)



- Cyan (69%)
- Magenta (0%)
- Yellow (18%)
- Black (46%)



- Cyan (83%)
- Magenta (46%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8666, 19.5748, 18.4294 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 12.8666, 19.5748, 18.4294 by changing the saturation by 10% instead.

■ 12.8666, 19.5748,
18.4294

■ 12.8666, 19.5748,
18.4294

203.7159,
249.6039, 255.5972

■ 7.4131, 12.0863,
11.0861

■ 30.6673, 42.7031,
41.5914

■ 3.7704, 6.8025,
6.0099

■ 43.7452, 59.1118,
58.2472

■ 1.5731, 3.3389,
2.7822

■ 60.0953, 79.2627,
78.8443

■ 0.3748, 1.3111,
0.9845

■ 80.0829, 103.5402,
103.8012

■ 0.0000, 0.1498,
0.0000

■ 104.0734,
132.3286, 133.5363

■ 0.0000, 0.0000,
0.0000

■ 132.4322,

166.0125, 168.4684

165.5245,
204.9761, 209.0158

■ 12.8666, 19.5748,
18.4294

■ 12.8666, 19.5748,
18.4294

■ 12.1872, 19.2480,
17.3601

■ 13.7483, 20.0059,
19.5519

■ 11.6881, 19.0127,
16.3413

■ 14.8483, 20.5481,
20.7275

■ 11.3222, 18.8452,
15.3705

■ 16.1825, 21.2101,
21.9579

■ 11.2736, 18.8230,
15.2390

■ 17.7653, 21.9992,
23.2443

■ 19.6095, 22.9221,
24.5878

■ 21.7272, 23.9850,
25.9893

■ 24.1298, 25.1937,
27.4498

■ 26.8278, 26.5537,
28.9703

■ 29.8314, 28.0702,
30.5517

Harmonies

Analogous

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



13.9871, 19.5748, 11.5137



12.8666, 19.5748, 18.4294



13.1319, 19.5748, 28.6501

Triad

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



12.8666, 19.5748, 18.4294



21.0161, 19.5748, 44.0838



23.0636, 19.5748, 9.8522

Complementary

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



12.8666, 19.5748, 18.4294



12.2245, 7.4641, 6.2662

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.



25.4207, 19.5748, 15.3505



12.8666, 19.5748, 18.4294



24.1421, 19.5748, 35.5175

Square

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



12.8666, 19.5748, 18.4294



17.5688, 19.5748, 45.6687



25.8378, 19.5748, 24.4841



19.6817, 19.5748, 7.6542

Rectangle

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



12.8666, 19.5748, 18.4294



14.0734, 19.5748, 36.0192



25.8378, 19.5748, 24.4841



24.0185, 19.5748, 11.2796

Sweetspot

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



12.8671, 19.5756, 18.4299



34.1245, 40.5511, 43.3337



11.7710, 19.2979, 5.3904



7.4772, 9.0069, 9.5920



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.8671, 19.5756, 18.4299



21.3217, 34.2301, 30.1279



11.6506, 14.5972, 25.8713



5.1170, 5.6663, 6.1371



10.5060, 17.5350, 14.2213



0.0759, 0.1189, 0.1265

Inverse Universe

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



12.2245, 7.4641, 6.2662



20.1344, 11.0200, 7.0374



12.6398, 9.2664, 3.4083



5.0840, 5.0690, 5.5306



9.9172, 5.0770, 2.0684



0.0713, 0.0359, 0.0421

Previews

White Background



This preview shows how the XYZ color 12.8666, 19.5748, 18.4294 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 12.8666, 19.5748, 18.4294 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

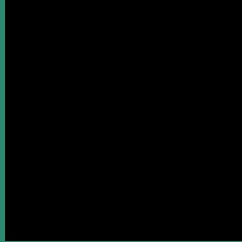
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.8666, 19.5748, 18.4294

Background



This preview shows how black text looks on a background with the XYZ color 12.8666, 19.5748, 18.4294.

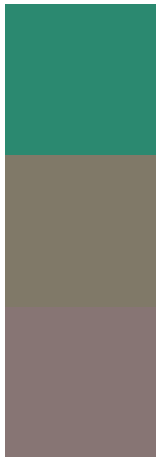


This preview shows how white text looks on a background with the XYZ color 12.8666, 19.5748,

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

12.8666, 19.5748, 18.4294

Protanopia

18.2381, 19.2634, 15.8537

Deuteranopia

19.5053, 19.1344, 19.1883



Tritanopia

15.0328, 19.6281, 28.9829

Trichromacy



Original Color

12.8666, 19.5748, 18.4294

Protanomaly

15.1730, 18.7817, 16.7354

Deuteranomaly

15.7817, 18.4779, 18.9545

Tritanomaly

14.1061, 19.4462, 24.8398

Monochromacy



Original Color

12.8666, 19.5748, 18.4294

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

12.6353, 15.6443, 16.5411

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8666, 19.5748, 18.4294 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(43, 137, 112)` looks like.

```
.text, #text, p{  
  color:rgb(43, 137, 112)  
}
```

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(43, 137, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(43, 137, 112) }
```

Border

The CSS property to change the border of an element to XYZ 12.8666, 19.5748, 18.4294 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(43, 137, 112) }
```


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

```
.border{ border-color:rgb(43, 137, 112) }
```

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

Here you see how a box with a 4 pixel rgb(43, 137, 112) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(43, 137, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(43, 137, 112);  
box-shadow:4px 4px 4px 4px rgb(43, 137,  
112) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8666, 19.5748, 18.4294 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(43, 137, 112) }
```

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

```
.background{ background-color: rgb(43, 137,  
112) }
```

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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