

Converting Colors

XYZ(12.8985, 19.4792, 19.3358)

Have a look what the booklet for
XYZ(12.8985, 19.4792, 19.3358)
contains.

XYZ(12.9546, 19.6005, 19.3202)	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(12.9546, 19.6005,
19.3202)**

Conversions

Conversions Part 1

Format	Color
Hex	298973
RGB	41, 137, 115
RGB Percent	16%, 54%, 45%
CMY	0.8392, 0.4627, 0.5490
CMYK	0.70, 0.00, 0.16, 0.46
HSL	166°, 54%, 35%
HSV	166°, 70%, 54%
XYZ	12.9546, 19.6005, 19.3202
YIQ	105.7880, -50.1540, -27.1940

Conversions

Conversions Part 2

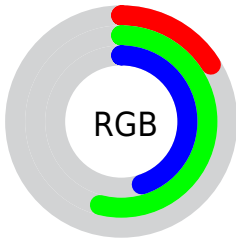
Format	Color
RYB	41, 95, 137
Decimal	2722163
CIELab	51.38, -33.13, 3.79
CIElCh	51, 33.343, 173.473
Yxy	19.6005, 0.2497, 0.3778
Android (android.graphics.Color)	4280912243 (0xFF298973)
YUV	105.7880, 4.5415, -56.8191
Hunter-Lab	44.2725, -25.2458, 5.1170

Details

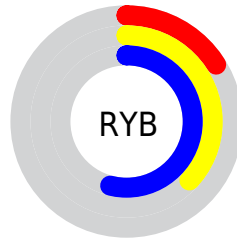
The XYZ color **12.9546, 19.6005, 19.3202** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **12.0073, 7.2636, 5.4724**, and the grayscale version is **13.6399, 14.3502, 15.6274**.

A 20% lighter version of the original color is **30.8614, 42.7609, 43.1863**, and **4.3409, 7.0608, 6.4443** is the 20% darker color. If you saturate the color by 10%, you get **12.3229, 19.2959, 18.3638**, and if you desaturate by 10%, it is **13.7837, 20.0072, 20.3188**.

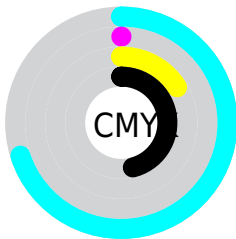
Distribution



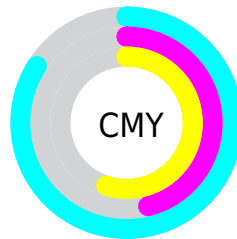
- Red (16%)
- Green (54%)
- Blue (45%)



- Red (16%)
- Yellow (37%)
- Blue (54%)



- Cyan (70%)
- Magenta (0%)
- Yellow (16%)
- Black (46%)



- Cyan (84%)
- Magenta (46%)
- Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9546, 19.6005, 19.3202 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 12.9546, 19.6005, 19.3202 by changing the saturation by 10% instead.

12.9546, 19.6005,
19.3202

12.9546, 19.6005,
19.3202

204.2700,
249.7441, 260.6922

7.4741, 12.1050,
11.7227

30.8242, 42.7464,
43.1183

3.8093, 6.8152,
6.4349

43.9440, 59.1655,
60.1561

1.5948, 3.3468,
3.0383

60.3409, 79.3280,
81.1777

0.3890, 1.3154,
1.1142

80.3803, 103.6182,
106.6017

0.0000, 0.1530,
0.0000

104.4276,
132.4205, 136.8466

0.0000, 0.0000,
0.0000

132.8480,

166.1193, 172.3309

166.0071,
205.0991, 213.4733

■ 12.9546, 19.6005,
19.3202

■ 12.9546, 19.6005,
19.3202

■ 12.3229, 19.2959,
18.3638

■ 13.7837, 20.0072,
20.3188

■ 11.8663, 19.0803,
17.4470

■ 14.8266, 20.5228,
21.3595

■ 11.5269, 18.9243,
16.5732

■ 16.0995, 21.1564,
22.4436

■ 17.6167, 21.9151,
23.5723

■ 19.3914, 22.8058,
24.7463

■ 21.4356, 23.8348,
25.9666

■ 23.7609, 25.0079,
27.2340

■ 26.3778, 26.3305,
28.5493

■ 29.2966, 27.8081,
29.9132

Harmonies

Analogous

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



13.9349, 19.6005, 12.1665



12.9546, 19.6005, 19.3202



13.3425, 19.6005, 29.5293

Triad

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



12.9546, 19.6005, 19.3202



21.3039, 19.6005, 43.0226



22.7155, 19.6005, 9.7194

Complementary

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



12.9546, 19.6005, 19.3202



12.0073, 7.2636, 5.4724

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.



25.1563, 19.6005, 14.8273



12.9546, 19.6005, 19.3202



24.2757, 19.6005, 34.2533

Square

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



12.9546, 19.6005, 19.3202



17.9098, 19.6005, 45.2980



25.7589, 19.6005, 23.4993



19.3686, 19.6005, 7.7963

Rectangle

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



12.9546, 19.6005, 19.3202



14.3507, 19.6005, 36.6446



25.7589, 19.6005, 23.4993



23.6845, 19.6005, 11.0313

Sweetspot

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



12.9552, 19.6013, 19.3207



34.2542, 40.6030, 44.0170



11.4220, 19.1221, 5.1871



7.5093, 9.0198, 9.7608



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.



12.9552, 19.6013, 19.3207



21.5589, 34.3128, 31.9272



11.1586, 13.7346, 25.7307



5.1246, 5.6693, 6.1773



10.7416, 17.6292, 15.4619



0.0769, 0.1193, 0.1319

Inverse Universe

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



12.0073, 7.2636, 5.4724



19.7988, 10.7396, 5.7208



12.7008, 9.4460, 3.2520



5.0768, 5.0662, 5.4929



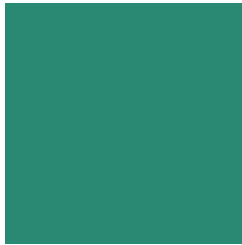
9.8492, 5.0498, 1.7101



0.0702, 0.0355, 0.0367

Previews

White Background



This preview shows how the XYZ color 12.9546, 19.6005, 19.3202 looks on a white background.

Color Contrast Check

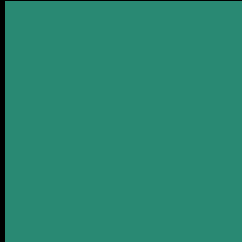
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9546, 19.6005, 19.3202 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

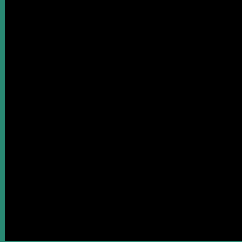
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.9546, 19.6005, 19.3202

Background



This preview shows how black text looks on a background with the XYZ color 12.9546, 19.6005, 19.3202.

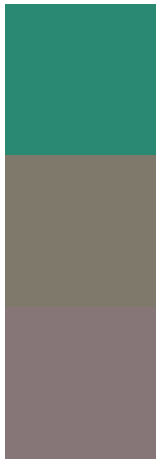


This preview shows how white text looks on a background with the XYZ color 12.9546, 19.6005,

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

12.9546, 19.6005, 19.3202

Protanopia

18.2436, 19.2483, 16.6637

Deuteranopia

19.6397, 19.3571, 20.1539



Tritanopia

14.9971, 19.6009, 29.3785

Trichromacy



Original Color

12.9546, 19.6005, 19.3202

Protanomaly

15.2277, 18.7913, 17.5764

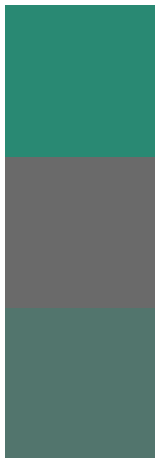
Deuteranomaly

15.8592, 18.6846, 19.9102

Tritanomaly

14.0741, 19.4218, 25.1973

Monochromacy



Original Color

12.9546, 19.6005, 19.3202

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

12.6013, 15.6205, 16.8189

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9546, 19.6005, 19.3202 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(41, 137, 115)` looks like.

```
.text, #text, p{  
    color:rgb(41, 137, 115)  
}
```

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(41, 137, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 137, 115) }
```

Border

The CSS property to change the border of an element to XYZ 12.9546, 19.6005, 19.3202 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(41, 137, 115) }
```


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

```
.border{ border-color:rgb(41, 137, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(41, 137, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 137, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 137, 115);  
box-shadow:4px 4px 4px 4px rgb(41, 137,  
115) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9546, 19.6005, 19.3202 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 137, 115) }
```

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

```
.background{ background-color: rgb(41, 137,  
115) }
```

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