

Converting Colors

XYZ(12.9828, 16.3318, 19.1827)

Have a look what the booklet for
XYZ(12.9828, 16.3318, 19.1827)
contains.

| | |
|--|----|
| XYZ(12.9879, 16.2951, 19.2903) | 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(12.9879, 16.2951,
19.2903)**

Conversions

Conversions Part 1

| Format | Color |
|-------------|------------------------------|
| Hex | 4D7875 |
| RGB | 77, 120, 117 |
| RGB Percent | 30%, 47%, 46% |
| CMY | 0.6980, 0.5294, 0.5412 |
| CMYK | 0.36, 0.00, 0.03, 0.53 |
| HSL | 176°, 22%, 39% |
| HSV | 176°, 36%, 47% |
| XYZ | 12.9879, 16.2951, 19.2903 |
| YIQ | 106.8010, -24.6650, -10.0490 |

Conversions

Conversions Part 2

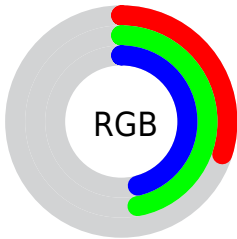
| Format | Color |
|-------------------------------------|-------------------------------|
| RYB | 77, 99, 120 |
| Decimal | 5077109 |
| CIELab | 47.36, -15.57, -3.09 |
| CIELCh | 47, 15.868, 191.222 |
| Yxy | 16.2951, 0.2674, 0.3355 |
| Android (android.graphics.Color) | 4283267189 (0xFF4D7875) |
| YUV | 106.8010, 5.0281, -26.1355 |
| Hunter-Lab | 40.3672, -13.2113, -0.0759 |

Details

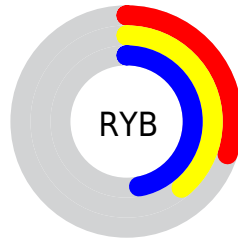
The XYZ color **12.9879, 16.2951, 19.2903** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.8481, 9.8804, 8.8727**, and the grayscale version is **13.9118, 14.6363, 15.9390**.

A 20% lighter version of the original color is **30.8160, 36.9588, 43.0457**, and **3.8063, 5.1830, 6.4300** is the 20% darker color. If you saturate the color by 10%, you get **12.0587, 15.8221, 18.9912**, and if you desaturate by 10%, it is **14.0972, 16.8616, 19.6009**.

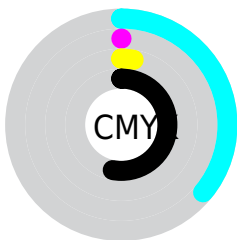
Distribution



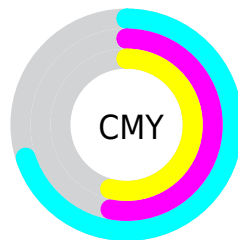
- Red (30%)
- Green (47%)
- Blue (46%)



- Red (30%)
- Yellow (39%)
- Blue (47%)



- Cyan (36%)
- Magenta (0%)
- Yellow (3%)
- Black (53%)



- Cyan (70%)
- Magenta (53%)
- Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9879, 16.2951, 19.2903 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 12.9879, 16.2951, 19.2903 by changing the saturation by 10% instead.

■ 12.9879, 16.2951,
19.2903

■ 12.9879, 16.2951,
19.2903

204.4793,
231.0768, 260.5226

■ 7.4972, 9.7332,
11.7013

■ 30.8835, 37.1098,
43.0673

■ 3.8240, 5.2224,
6.4206

■ 44.0192, 52.1313,
60.0923

■ 1.6030, 2.3784,
3.0296

■ 60.4338, 70.7416,
81.0998

■ 0.3944, 0.8147,
1.1097

■ 80.4927, 93.3249,
106.5083

■ 0.0000, 0.0000,
0.0000

■ 104.5614,
120.2657, 136.7363

133.0052,

151.9483, 172.2023

166.1893,
188.7572, 213.3249

■ 12.9879, 16.2951,
19.2903

■ 12.9879, 16.2951,
19.2903

■ 12.0587, 15.8221,
18.9912

■ 14.0972, 16.8616,
19.6009

■ 11.2983, 15.4358,
18.7019

■ 15.3942, 17.5245,
19.9222

■ 10.6963, 15.1310,
18.4223

■ 16.8878, 18.2887,
20.2550

■ 10.2408, 14.9017,
18.1519

■ 18.5861, 19.1583,
20.5997

■ 9.9180, 14.7407,
17.8899

■ 20.4965, 20.1373,
20.9567

■ 9.7026, 14.6351,
17.6353

■ 22.6262, 21.2292,
21.3262

■ 9.6206, 14.5951,
17.5302

■ 24.9820, 22.4376,
21.7087

■ 27.5704, 23.7659,
22.1044

■ 30.3976, 25.2172,
22.5136

Harmonies

Analogous

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



13.0700, 16.2951, 15.3683



12.9879, 16.2951, 19.2903



13.5448, 16.2951, 23.3411

Triad

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



12.9879, 16.2951, 19.2903



17.3361, 16.2951, 24.2168



16.3734, 16.2951, 11.3828

Complementary

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



12.9879, 16.2951, 19.2903



11.8481, 9.8804, 8.8727

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.



17.6087, 16.2951, 13.1195



12.9879, 16.2951, 19.2903



18.1873, 16.2951, 20.3497

Square

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



12.9879, 16.2951, 19.2903



16.0194, 16.2951, 26.4587



18.2900, 16.2951, 16.2800



14.9685, 16.2951, 11.1877

Rectangle

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



12.9879, 16.2951, 19.2903



14.2243, 16.2951, 25.4191



18.2900, 16.2951, 16.2800



16.8244, 16.2951, 11.7918

Sweetspot

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



12.9884, 16.2958, 19.2907



28.2296, 31.4120, 35.3026



11.4142, 15.7004, 9.4503



6.6249, 7.4110, 8.3517



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.9884, 16.2958, 19.2907



21.4769, 27.9639, 33.4931



11.2108, 12.4535, 19.5830



4.0956, 4.5078, 5.0371



10.4929, 15.9208, 19.1125



49.9223, 75.8920, 90.4838

Inverse Universe

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



11.8481, 9.8804, 8.8727



19.1584, 14.9082, 12.3012



13.1705, 12.6988, 8.7784



4.0086, 4.0192, 4.2430



8.4979, 4.3753, 0.6471



40.4142, 20.8220, 2.4452

Previews

White Background



This preview shows how the XYZ color 12.9879, 16.2951, 19.2903 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 12.9879, 16.2951, 19.2903 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 12.9879, 16.2951, 19.2903

Background



This preview shows how black text looks on a background with the XYZ color 12.9879, 16.2951, 19.2903.



This preview shows how white text looks on a background with the XYZ color 12.9879, 16.2951,

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

12.9879, 16.2951, 19.2903

Protanopia

15.5485, 16.1161, 17.6205

Deuteranopia

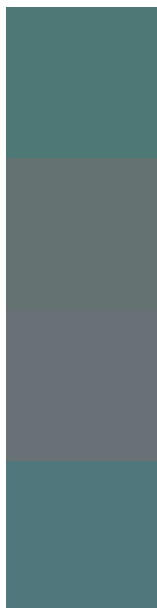
16.4062, 16.1911, 19.7133



Tritanopia

13.6830, 16.2209, 22.8318

Trichromacy



Original Color

12.9879, 16.2951, 19.2903

Protanomaly

14.4214, 16.0162, 18.2509

Deuteranomaly

14.8841, 16.0613, 19.4552

Tritanomaly

13.4594, 16.3112, 21.5078

Monochromacy



Original Color

12.9879, 16.2951, 19.2903

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.4873, 15.2228, 17.2664

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9879, 16.2951, 19.2903 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(77, 120, 117)` looks like.

```
.text, #text, p{  
    color:rgb(77, 120, 117)  
}
```

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(77, 120, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 120, 117) }
```

Border

The CSS property to change the border of an element to XYZ 12.9879, 16.2951, 19.2903 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(77, 120, 117) }
```


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

```
.border{ border-color:rgb(77, 120, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 120, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 120, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 120, 117);  
box-shadow:4px 4px 4px 4px rgb(77, 120,  
117) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9879, 16.2951, 19.2903 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 120, 117) }
```

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

```
.background{ background-color: rgb(77, 120,  
117) }
```

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