

Converting Colors

XYZ(9.8040, 12.9070, 19.3851)

Have a look what the booklet for
XYZ(9.8040, 12.9070, 19.3851)
contains.

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Color

**XYZ(9.8202, 12.9552,
19.4358)**

Conversions

Conversions Part 1

Format	Color
Hex	296E77
RGB	41, 110, 119
RGB Percent	16%, 43%, 47%
CMY	0.8392, 0.5686, 0.5333
CMYK	0.66, 0.08, 0.00, 0.53
HSL	187°, 49%, 31%
HSV	187°, 66%, 47%
XYZ	9.8202, 12.9552, 19.4358
YIQ	90.3950, -44.0130, -11.8290

Conversions

Conversions Part 2

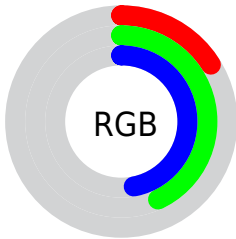
Format	Color
RYB	41, 78, 119
Decimal	2715255
CIELab	42.70, -18.38, -11.41
CIELCh	43, 21.633, 211.834
Yxy	12.9552, 0.2326, 0.3069
Android (android.graphics.Color)	4280905335 (0xFF296E77)
YUV	90.3950, 14.1023, -43.3194
Hunter-Lab	35.9933, -14.2875, -6.8203

Details

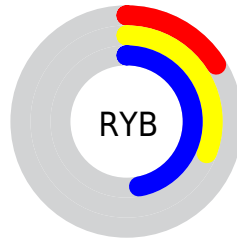
The XYZ color **9.8202, 12.9552, 19.4358** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **9.1490, 6.3637, 2.8444**, and the grayscale version is **9.7838, 10.2934, 11.2095**.

A 20% lighter version of the original color is **25.0949, 31.2677, 43.2407**, and **2.8600, 3.9002, 6.5633** is the 20% darker color. If you saturate the color by 10%, you get **9.2686, 12.4529, 19.3682**, and if you desaturate by 10%, it is **10.5185, 13.5371, 19.5116**.

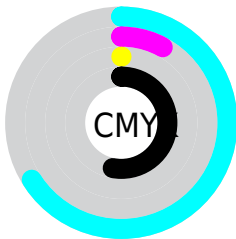
Distribution



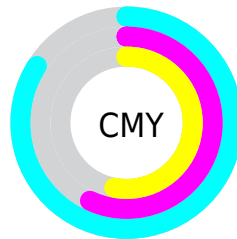
- Red (16%)
- Green (43%)
- Blue (47%)



- Red (16%)
- Yellow (31%)
- Blue (47%)



- Cyan (66%)
- Magenta (8%)
- Yellow (0%)
- Black (53%)



- Cyan (84%)
- Magenta (57%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 9.8202, 12.9552, 19.4358 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 9.8202, 12.9552, 19.4358 by changing the saturation by 10% instead.

■ 9.8202, 12.9552,
19.4358

■ 9.8202, 12.9552,
19.4358

■ 183.4645,
210.6304, 261.3466

■ 5.3413, 7.3977,
11.8056

■ 25.1095, 31.2233,
43.3157

■ 2.4857, 3.7120,
6.4905

■ 36.6506, 44.7026,
60.4024

■ 0.8880, 1.5138,
3.0720

■ 51.2765, 61.5914,
81.4785

■ 0.0000, 0.2984,
1.1315

■ 69.3524, 82.2740,
106.9623

■ 0.0000, 0.0000,
0.0000

■ 91.2438, 107.1348,
137.2725

■ 117.3161,

136.5582, 172.8276

147.9345,
170.9286, 214.0461

■ 9.8202, 12.9552,
19.4358

■ 9.8202, 12.9552,
19.4358

■ 9.2686, 12.4529,
19.3682

■ 10.5185, 13.5371,
19.5116

■ 8.8491, 12.0218,
19.3071

■ 11.3740, 14.2032,
19.5950

■ 8.5382, 11.6501,
19.2517

■ 12.3976, 14.9594,
19.6870

■ 8.4090, 11.4903,
19.2277

■ 13.5991, 15.8107,
19.7880

■ 14.9873, 16.7618,
19.8984

■ 16.5704, 17.8168,
20.0186

■ 18.3563, 18.9799,
20.1490

■ 20.3523, 20.2548,
20.2899

■ 22.5655, 21.6451,
20.4416

Harmonies

Analogous

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



9.4186, 12.9552, 14.3975



9.8202, 12.9552, 19.4358



10.8819, 12.9552, 23.6784

Triad

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



9.8202, 12.9552, 19.4358



15.3134, 12.9552, 18.8214



12.2127, 12.9552, 6.8586

Complementary

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



9.8202, 12.9552, 19.4358



9.1490, 6.3637, 2.8444

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.



13.8655, 12.9552, 7.5395



9.8202, 12.9552, 19.4358



15.7481, 12.9552, 13.8185

Square

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



9.8202, 12.9552, 19.4358



14.0559, 12.9552, 23.2718



15.1968, 12.9552, 9.8523



10.7215, 12.9552, 7.7318

Rectangle

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



9.8202, 12.9552, 19.4358



11.8703, 12.9552, 25.0890



15.1968, 12.9552, 9.8523



12.7677, 12.9552, 6.9126

Sweetspot

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



9.8206, 12.9557, 19.4361



25.5605, 29.1467, 35.5318



8.0619, 13.8855, 5.1395



5.9255, 6.8167, 8.4101



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.



9.8206, 12.9557, 19.4361



16.1590, 21.8624, 34.6213



6.5750, 6.4646, 18.3543



3.7490, 4.0866, 4.6814



8.9296, 12.1988, 20.4265



43.1137, 58.6439, 99.4074

Inverse Universe

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



11.2156, 6.6341, 15.4417



18.9934, 10.0265, 26.2788



11.4817, 11.0292, 3.6220



3.8093, 3.7510, 4.5227



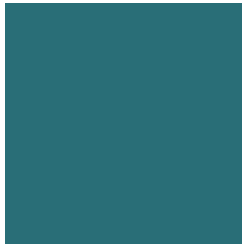
10.8044, 5.2555, 14.7099



52.4485, 25.5295, 70.6164

Previews

White Background



This preview shows how the XYZ color 9.8202, 12.9552, 19.4358 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 9.8202, 12.9552, 19.4358 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

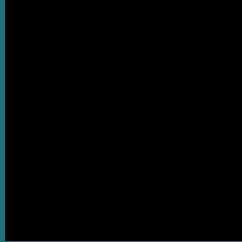
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 9.8202, 12.9552, 19.4358

Background



This preview shows how black text looks on a background with the XYZ color 9.8202, 12.9552, 19.4358.

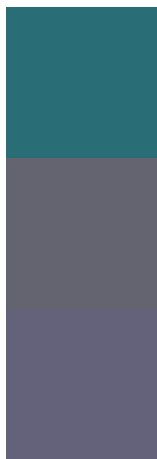


This preview shows how white text looks on a background with the XYZ color 9.8202, 12.9552,

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

9.8202, 12.9552, 19.4358

Protanopia

12.6274, 12.9368, 17.1608

Deuteranopia

13.0261, 12.7932, 20.1951



Tritanopia

9.8202, 12.9552, 19.4358

Trichromacy



Original Color

9.8202, 12.9552, 19.4358

Protanomaly

11.1867, 12.7581, 18.0926

Deuteranomaly

11.3444, 12.5029, 19.9045

Tritanomaly

9.8202, 12.9552, 19.4358

Monochromacy



Original Color

9.8202, 12.9552, 19.4358

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

9.2961, 10.8667, 13.9194

CSS Examples

Text

The CSS property to change the color of the text to XYZ 9.8202, 12.9552, 19.4358 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, 110, 119)` looks like.

```
.text, #text, p{  
    color:rgb(41, 110, 119)  
}
```

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, 110, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 110, 119) }
```

Border

The CSS property to change the border of an element to XYZ 9.8202, 12.9552, 19.4358 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, 110, 119) }
```


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

```
.border{ border-color:rgb(41, 110, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(41, 110, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 110, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 110, 119);  
box-shadow:4px 4px 4px 4px rgb(41, 110,  
119) }
```

Background

The CSS property to change the background color of an element to XYZ 9.8202, 12.9552, 19.4358 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 110, 119) }
```

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

```
.background{ background-color: rgb(41, 110,  
119) }
```

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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