

Converting Colors

XYZ(13.0673, 16.7636, 19.7236)

Have a look what the booklet for
XYZ(13.0673, 16.7636, 19.7236)
contains.

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Color

**XYZ(12.9772, 16.6435,
19.6681)**

Conversions

Conversions Part 1

Format	Color
Hex	497A76
RGB	73, 122, 118
RGB Percent	29%, 48%, 46%
CMY	0.7137, 0.5216, 0.5373
CMYK	0.40, 0.00, 0.03, 0.52
HSL	175°, 25%, 38%
HSV	175°, 40%, 48%
XYZ	12.9772, 16.6435, 19.6681
YIQ	106.8930, -27.9200, -11.6320

Conversions

Conversions Part 2

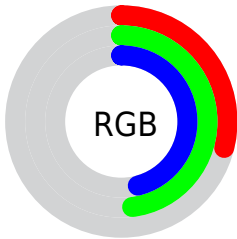
Format	Color
RYB	73, 99, 122
Decimal	4815478
CIELab	47.81, -17.57, -3.04
CIELCh	48, 17.830, 189.829
Yxy	16.6435, 0.2633, 0.3377
Android (android.graphics.Color)	4283005558 (0xFF497A76)
YUV	106.8930, 5.4758, -29.7242
Hunter-Lab	40.7964, -14.6136, -0.0264

Details

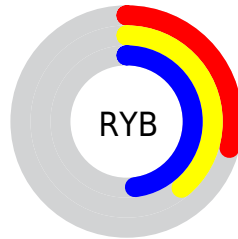
The XYZ color **12.9772, 16.6435, 19.6681** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.7487, 9.4390, 8.2245**, and the grayscale version is **13.9367, 14.6625, 15.9675**.

A 20% lighter version of the original color is **30.8979, 37.8473, 43.7070**, and **3.8189, 5.3779, 6.6311** is the 20% darker color. If you saturate the color by 10%, you get **12.0833, 16.1899, 19.3192**, and if you desaturate by 10%, it is **14.0541, 17.1922, 20.0296**.

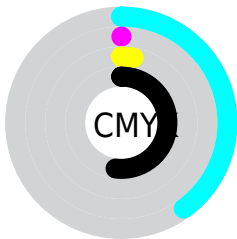
Distribution



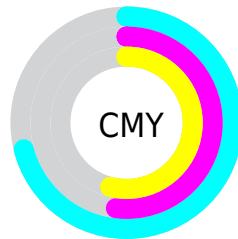
- Red (29%)
- Green (48%)
- Blue (46%)



- Red (29%)
- Yellow (39%)
- Blue (48%)



- Cyan (40%)
- Magenta (0%)
- Yellow (3%)
- Black (52%)



- Cyan (71%)
- Magenta (52%)
- Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9772, 16.6435, 19.6681 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 12.9772, 16.6435, 19.6681 by changing the saturation by 10% instead.

■ 12.9772, 16.6435,
19.6681

■ 12.9772, 16.6435,
19.6681

204.4120,
233.1095, 262.6572

■ 7.4897, 9.9806,
11.9723

■ 30.8645, 37.7118,
43.7117

■ 3.8193, 5.3861,
6.6025

■ 43.9950, 52.8860,
60.8965

■ 1.6004, 2.4755,
3.1401

■ 60.4039, 71.6662,
82.0815

■ 0.3927, 0.8644,
1.1666

■ 80.4566, 94.4367,
107.6852

■ 0.0000, 0.0000,
0.0000

■ 104.5184,
121.5818, 138.1260

132.9547,

153.4861, 173.8226

166.1308,
190.5339, 215.1935

■ 12.9772, 16.6435,
19.6681

■ 12.9772, 16.6435,
19.6681

■ 12.0833, 16.1899,
19.3192

■ 14.0541, 17.1922,
20.0296

■ 11.3602, 15.8238,
18.9812

■ 15.3223, 17.8390,
20.4029

■ 10.7967, 15.5400,
18.6538

■ 16.7914, 18.5894,
20.7889

■ 10.3795, 15.3315,
18.3366

■ 18.4699, 19.4476,
21.1880

■ 10.0932, 15.1904,
18.0287

■ 20.3659, 20.4178,
21.6006

■ 9.8866, 15.0903,
17.7325

■ 22.4868, 21.5039,
22.0271

■ 24.8399, 22.7097,
22.4677

■ 27.4322, 24.0387,
22.9228

■ 30.2703, 25.4943,
23.3928

Harmonies

Analogous

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



13.1034, 16.6435, 15.2503



12.9772, 16.6435, 19.6681



13.5721, 16.6435, 24.3716

Triad

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



12.9772, 16.6435, 19.6681



17.8727, 16.6435, 25.7658



16.9039, 16.6435, 11.0456

Complementary

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



12.9772, 16.6435, 19.6681



11.7487, 9.4390, 8.2245

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.



18.3015, 16.6435, 13.0439



12.9772, 16.6435, 19.6681



18.8864, 16.6435, 21.3332

Square

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



12.9772, 16.6435, 19.6681



16.3502, 16.6435, 28.2641



19.0484, 16.6435, 16.6590



15.2997, 16.6435, 10.7527

Rectangle

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



12.9772, 16.6435, 19.6681



14.3227, 16.6435, 26.8567



19.0484, 16.6435, 16.6590



17.4163, 16.6435, 11.5219

Sweetspot

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



12.9777, 16.6442, 19.6685



28.9603, 32.4068, 36.4264



11.2299, 15.9820, 8.7967



6.5627, 7.3797, 8.3138



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.



12.9777, 16.6442, 19.6685



21.4016, 28.5550, 34.0479



10.9715, 12.2432, 20.1979



4.0936, 4.5071, 5.0269



10.4073, 15.8866, 18.6614



49.4941, 75.7207, 88.2288

Inverse Universe

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



11.7487, 9.4390, 8.2245



18.9320, 14.0572, 11.0370



13.1802, 12.5212, 8.0259



4.0104, 4.0199, 4.2523



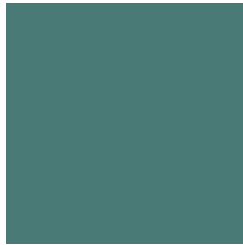
8.5060, 4.3786, 0.6898



40.4399, 20.8323, 2.5805

Previews

White Background



This preview shows how the XYZ color 12.9772, 16.6435, 19.6681 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 12.9772, 16.6435, 19.6681 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 12.9772, 16.6435, 19.6681

Background



This preview shows how black text looks on a background with the XYZ color 12.9772, 16.6435, 19.6681.



This preview shows how white text looks on a background with the XYZ color 12.9772, 16.6435,

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

12.9772, 16.6435, 19.6681

Protanopia

15.7890, 16.4030, 17.6632

Deuteranopia

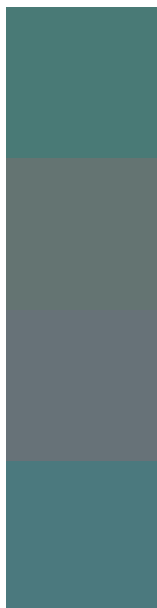
16.7728, 16.5254, 20.3949



Tritanopia

13.7262, 16.5811, 23.5961

Trichromacy



Original Color

12.9772, 16.6435, 19.6681

Protanomaly

14.5382, 16.4150, 18.3218

Deuteranomaly

15.0010, 16.2743, 20.1199

Tritanomaly

13.5049, 16.6770, 22.2459

Monochromacy



Original Color

12.9772, 16.6435, 19.6681

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.3827, 15.1689, 17.2615

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9772, 16.6435, 19.6681 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, 122, 118)` looks like.

```
.text, #text, p{  
    color:rgb(73, 122, 118)  
}
```

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, 122, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 122, 118) }
```

Border

The CSS property to change the border of an element to XYZ 12.9772, 16.6435, 19.6681 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, 122, 118) }
```


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

```
.border{ border-color:rgb(73, 122, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 122, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(73, 122, 118); -webkit-box-shadow:4px 4px 4px 4px rgb(73, 122, 118); box-shadow:4px 4px 4px 4px rgb(73, 122, 118) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9772, 16.6435, 19.6681 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 122, 118) }
```

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

```
.background{ background-color: rgb(73, 122,  
118) }
```

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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