

Converting Colors

XYZ(12.3056, 15.6651, 19.8179)

Have a look what the booklet for
XYZ(12.3056, 15.6651, 19.8179)
contains.

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Color

**XYZ(12.3808, 15.7908,
19.8481)**

Conversions

Conversions Part 1

Format	Color
Hex	457777
RGB	69, 119, 119
RGB Percent	27%, 47%, 47%
CMY	0.7294, 0.5333, 0.5333
CMYK	0.42, 0.00, 0.00, 0.53
HSL	180°, 27%, 37%
HSV	180°, 42%, 47%
XYZ	12.3808, 15.7908, 19.8481
YIQ	104.0500, -29.8000, -10.6000

Conversions

Conversions Part 2

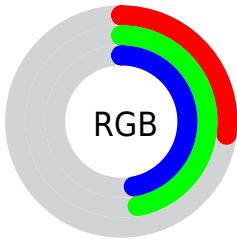
Format	Color
RYB	69, 94, 119
Decimal	4552567
CIELab	46.70, -16.80, -5.30
CIELCh	47, 17.611, 197.512
Yxy	15.7908, 0.2578, 0.3288
Android (android.graphics.Color)	4282742647 (0xFF457777)
YUV	104.0500, 7.3704, -30.7388
Hunter-Lab	39.7376, -13.9268, -1.7977

Details

The XYZ color **12.3808, 15.7908, 19.8481** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **10.8106, 8.6082, 6.7225**, and the grayscale version is **13.1584, 13.8437, 15.0758**.

A 20% lighter version of the original color is **29.6593, 36.0592, 43.9250**, and **3.5412, 4.9454, 6.7292** is the 20% darker color. If you saturate the color by 10%, you get **11.6200, 15.3990, 19.8127**, and if you desaturate by 10%, it is **13.3119, 16.2712, 19.8922**.

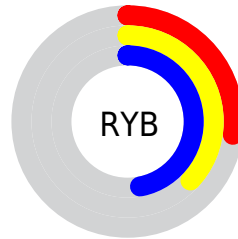
Distribution



Red (27%)

Green (47%)

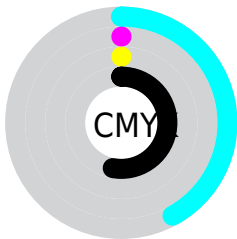
Blue (47%)



Red (27%)

Yellow (37%)

Blue (47%)

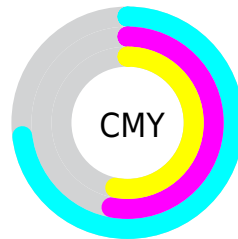


Cyan (42%)

Magenta (0%)

Yellow (0%)

Black (53%)



Cyan (73%)

Magenta (53%)

Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3808, 15.7908, 19.8481 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 12.3808, 15.7908, 19.8481 by changing the saturation by 10% instead.

12.3808, 15.7908,
19.8481

12.3808, 15.7908,
19.8481

200.6291,
228.1041, 263.6686

7.0776, 9.3762,
12.1017

29.7977, 36.2346,
44.0180

3.5575, 4.9874,
6.6896

42.6420, 51.0327,
61.2785

1.4550, 2.2399,
3.1933

58.7309, 69.3941,
82.5476

0.2949, 0.7416,
1.1941

78.4295, 91.7031,
108.2436

0.0000, 0.0000,
0.0000

102.1033,
118.3443, 138.7852

130.1176,

149.7019, 174.5908

162.8377,
186.1603, 216.0791

■ 12.3808, 15.7908,
19.8481

■ 12.3808, 15.7908,
19.8481

■ 11.6200, 15.3990,
19.8127

■ 13.3119, 16.2712,
19.8922

■ 11.0179, 15.0886,
19.7844

■ 14.4211, 16.8430,
19.9442

■ 10.5637, 14.8544,
19.7630

■ 15.7178, 17.5114,
20.0050

■ 10.2446, 14.6900,
19.7479

■ 17.2098, 18.2806,
20.0750

■ 10.0457, 14.5874,
19.7385

■ 18.9049, 19.1545,
20.1544

■ 9.9268, 14.5261,
19.7328

■ 20.8103, 20.1367,
20.2437

■ 22.9328, 21.2309,
20.3432

■ 25.2790, 22.4404,
20.4531

■ 27.8551, 23.7684,
20.5738

Harmonies

Analogous

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



12.3223, 15.7908, 15.4397



12.3808, 15.7908, 19.8481



13.1128, 15.7908, 24.1645

Triad

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



12.3808, 15.7908, 19.8481



17.2780, 15.7908, 23.5168



15.6521, 15.7908, 10.2249

Complementary

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



12.3808, 15.7908, 19.8481



10.8106, 8.6082, 6.7225

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.



17.0790, 15.7908, 11.7114



12.3808, 15.7908, 19.8481



18.0596, 15.7908, 19.0753

Square

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



12.3808, 15.7908, 19.8481



15.9090, 15.7908, 26.5168



17.9844, 15.7908, 14.7868



14.1430, 15.7908, 10.3603

Rectangle

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



12.3808, 15.7908, 19.8481



13.9141, 15.7908, 26.1851



17.9844, 15.7908, 14.7868



16.1592, 15.7908, 10.5393

Sweetspot

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



12.3813, 15.7914, 19.8485



27.8203, 31.1894, 35.8066



10.1852, 14.9199, 7.9734



6.4866, 7.3367, 8.4808



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.



12.3813, 15.7914, 19.8485



20.8990, 27.6214, 35.4818



9.8616, 10.7520, 19.0091



3.7833, 4.1553, 4.6929



10.5462, 15.4325, 20.9641



51.3928, 75.2044, 102.1602

Inverse Universe

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



10.8106, 8.6082, 6.7225



17.6990, 12.9868, 8.7399



12.6115, 12.2101, 7.3225



3.6840, 3.7009, 3.8625



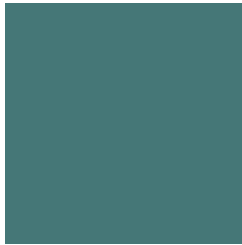
8.0828, 4.1668, 0.3784



39.3886, 20.3055, 1.8436

Previews

White Background



This preview shows how the XYZ color 12.3808, 15.7908, 19.8481 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 12.3808, 15.7908, 19.8481 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

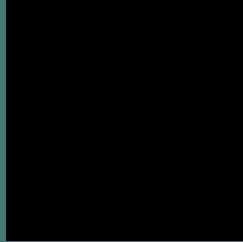
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.3808, 15.7908, 19.8481

Background



This preview shows how black text looks on a background with the XYZ color 12.3808, 15.7908, 19.8481.



This preview shows how white text looks on a background with the XYZ color 12.3808, 15.7908,

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

12.3808, 15.7908, 19.8481

Protanopia

15.1121, 15.7236, 17.8613

Deuteranopia

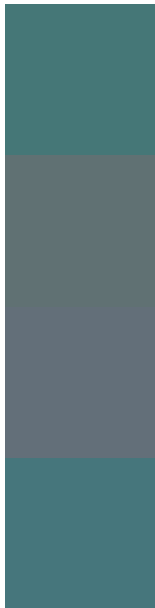
15.9730, 15.6335, 20.5881



Tritanopia

12.9077, 15.8288, 22.4536

Trichromacy



Original Color

12.3808, 15.7908, 19.8481

Protanomaly

13.8235, 15.5349, 18.4896

Deuteranomaly

14.2812, 15.4020, 20.3093

Tritanomaly

12.6423, 15.7142, 21.4356

Monochromacy



Original Color

12.3808, 15.7908, 19.8481

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.5433, 14.2656, 16.5604

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3808, 15.7908, 19.8481 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(69, 119, 119)` looks like.

```
.text, #text, p{  
    color:rgb(69, 119, 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(69, 119, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 119, 119) }
```

Border

The CSS property to change the border of an element to XYZ 12.3808, 15.7908, 19.8481 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(69, 119, 119) }
```


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

```
.border{ border-color:rgb(69, 119, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 119, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 119, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 119, 119);  
box-shadow:4px 4px 4px 4px rgb(69, 119,  
119) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3808, 15.7908, 19.8481 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 119, 119) }
```

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

```
.background{ background-color: rgb(69, 119,  
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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