

Converting Colors

XYZ(12.7602, 16.7027, 18.6574)

Have a look what the booklet for
XYZ(12.7602, 16.7027, 18.6574)
contains.

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Color

**XYZ(12.7760, 16.7433,
18.7781)**

Conversions

Conversions Part 1

Format	Color
Hex	477B73
RGB	71, 123, 115
RGB Percent	28%, 48%, 45%
CMY	0.7216, 0.5176, 0.5490
CMYK	0.42, 0.00, 0.07, 0.52
HSL	171°, 27%, 38%
HSV	171°, 42%, 48%
XYZ	12.7760, 16.7433, 18.7781
YIQ	106.5400, -28.4240, -13.5120

Conversions

Conversions Part 2

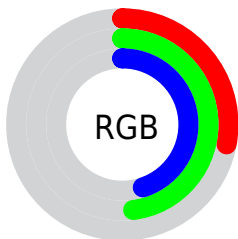
Format	Color
R_{YB}	71, 99, 123
Decimal	4684659
CIE _{Lab}	47.93, -19.45, -1.09
CIE _{LCh}	48, 19.485, 183.214
Yxy	16.7433, 0.2645, 0.3467
Android (android.graphics.Color)	4282874739 (0xFF477B73)
YUV	106.5400, 4.1708, -31.1686
Hunter-Lab	40.9186, -15.8745, 1.4340

Details

The XYZ color **12.7760, 16.7433, 18.7781** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.8335, 9.2824, 8.5657**, and the grayscale version is **13.8428, 14.5637, 15.8599**.

A 20% lighter version of the original color is **30.5264, 37.9783, 42.2808**, and **3.7305, 5.4413, 6.1638** is the 20% darker color. If you saturate the color by 10%, you get **11.8560, 16.2819, 18.1727**, and if you desaturate by 10%, it is **13.8819, 17.3011, 19.4047**.

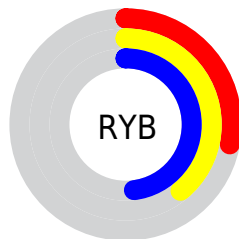
Distribution



Red (28%)

Green (48%)

Blue (45%)



Red (28%)

Yellow (39%)

Blue (48%)

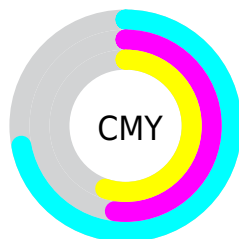


Cyan (42%)

Magenta (0%)

Yellow (7%)

Black (52%)



Cyan (72%)

Magenta (52%)

Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7760, 16.7433, 18.7781 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 12.7760, 16.7433, 18.7781 by changing the saturation by 10% instead.

■ 12.7760, 16.7433,
18.7781

■ 12.7760, 16.7433,
18.7781

203.1438,
233.6887, 257.6028

■ 7.3504, 10.0516,
11.3349

■ 30.5055, 37.8839,
42.1905

■ 3.7305, 5.4332,
6.1755

■ 43.5402, 53.1016,
58.9967

■ 1.5508, 2.5036,
2.8816

■ 59.8419, 71.9301,
79.7611

■ 0.3600, 0.8784,
1.0345

■ 79.7760, 94.7539,
104.9020

■ 0.0000, 0.0000,
0.0000

■ 103.7079,
121.9572, 134.8381

132.0029,

153.9245, 169.9879

165.0264,
191.0402, 210.7699

■ 12.7760, 16.7433,
18.7781

■ 12.7760, 16.7433,
18.7781

■ 11.8560, 16.2819,
18.1727

■ 13.8819, 17.3011,
19.4047

■ 11.1093, 15.9091,
17.5866

■ 15.1823, 17.9585,
20.0517

■ 10.5240, 15.6194,
17.0196

■ 16.6873, 18.7211,
20.7201

■ 10.0863, 15.4054,
16.4709

■ 18.4055, 19.5934,
21.4104

■ 9.7797, 15.2588,
15.9398

■ 20.3453, 20.5797,
22.1230

■ 9.5858, 15.1675,
15.5394

■ 22.5146, 21.6839,
22.8583

■ 24.9208, 22.9101,
23.6168

■ 27.5710, 24.2617,
24.3989

■ 30.4720, 25.7424,
25.2049

Harmonies

Analogous

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



13.0868, 16.7433, 14.2117



12.7760, 16.7433, 18.7781



13.2536, 16.7433, 24.0556

Triad

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



12.7760, 16.7433, 18.7781



17.8356, 16.7433, 27.5739



17.4842, 16.7433, 10.8906

Complementary

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



12.7760, 16.7433, 18.7781



11.8335, 9.2824, 8.5657

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.



18.9085, 16.7433, 13.4312



12.7760, 16.7433, 18.7781



19.1216, 16.7433, 22.9436

Square

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



12.7760, 16.7433, 18.7781



16.1040, 16.7433, 29.6867



19.5279, 16.7433, 17.6939



15.7255, 16.7433, 10.1815

Rectangle

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



12.7760, 16.7433, 18.7781



13.9770, 16.7433, 27.1210



19.5279, 16.7433, 17.6939



18.0222, 16.7433, 11.5324

Sweetspot

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



12.7765, 16.7440, 18.7785



29.5827, 33.3719, 36.9763



11.5010, 16.3125, 8.5040



6.8421, 7.7962, 8.6546



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.7765, 16.7440, 18.7785



21.2336, 29.1573, 32.5438



11.2939, 13.0097, 20.6555



4.0818, 4.5023, 4.9648



9.9145, 15.6895, 16.0664



47.0392, 74.7387, 75.3016

Inverse Universe

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



11.8335, 9.2824, 8.5657



19.3056, 13.8531, 11.6276



12.8234, 11.7007, 7.5442



4.0211, 4.0242, 4.3090



8.5696, 4.4040, 1.0246



40.6717, 20.9250, 3.8012

Previews

White Background



This preview shows how the XYZ color 12.7760, 16.7433, 18.7781 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 12.7760, 16.7433, 18.7781 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

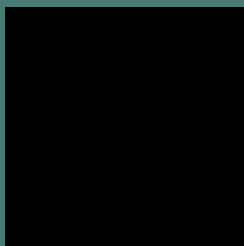
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7760, 16.7433, 18.7781

Background



This preview shows how black text looks on a background with the XYZ color 12.7760, 16.7433, 18.7781.



This preview shows how white text looks on a background with the XYZ color 12.7760, 16.7433,

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

12.7760, 16.7433, 18.7781

Protanopia

15.8679, 16.6274, 16.8411

Deuteranopia

16.8720, 16.5974, 19.4539



Tritanopia

13.7683, 16.7823, 23.6327

Trichromacy



Original Color

12.7760, 16.7433, 18.7781

Protanomaly

14.4861, 16.5796, 17.4756

Deuteranomaly

14.9351, 16.4294, 19.2136

Tritanomaly

13.4852, 16.8556, 21.9447

Monochromacy



Original Color

12.7760, 16.7433, 18.7781

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.3357, 15.3157, 17.0052

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7760, 16.7433, 18.7781 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(71, 123, 115)` looks like.

```
.text, #text, p{  
    color:rgb(71, 123, 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(71, 123, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 123, 115) }
```

Border

The CSS property to change the border of an element to XYZ 12.7760, 16.7433, 18.7781 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(71, 123, 115) }
```


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

```
.border{ border-color:rgb(71, 123, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 123, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 123, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 123, 115);  
box-shadow:4px 4px 4px 4px rgb(71, 123,  
115) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7760, 16.7433, 18.7781 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 123, 115) }
```

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

```
.background{ background-color: rgb(71, 123,  
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](#).

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