

Converting Colors

XYZ(12.2746, 15.3297, 19.7436)

Have a look what the booklet for
XYZ(12.2746, 15.3297, 19.7436)
contains.

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Color

**XYZ(12.2896, 15.3941,
19.7764)**

Conversions

Conversions Part 1

Format	Color
Hex	477577
RGB	71, 117, 119
RGB Percent	28%, 46%, 47%
CMY	0.7216, 0.5412, 0.5333
CMYK	0.40, 0.02, 0.00, 0.53
HSL	182°, 25%, 37%
HSV	182°, 40%, 47%
XYZ	12.2896, 15.3941, 19.7764
YIQ	103.4740, -28.0580, -9.1300

Conversions

Conversions Part 2

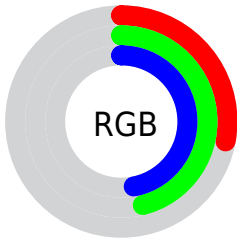
Format	Color
R_{YB}	71, 94, 119
Decimal	4683127
CIE _{Lab}	46.17, -15.14, -6.08
CIE _{LCh}	46, 16.310, 201.870
Yxy	15.3941, 0.2589, 0.3244
Android (android.graphics.Color)	4282873207 (0xFF477577)
YUV	103.4740, 7.6543, -28.4797
Hunter-Lab	39.2353, -12.7506, -2.4202

Details

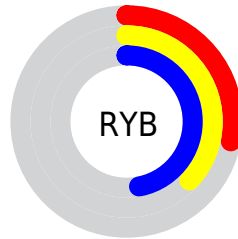
The XYZ color **12.2896, 15.3941, 19.7764** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.1278, 9.1421, 7.1397**, and the grayscale version is **13.0038, 13.6810, 14.8986**.

A 20% lighter version of the original color is **29.5647, 35.4538, 43.8131**, and **3.5539, 4.8599, 6.7120** is the 20% darker color. If you saturate the color by 10%, you get **11.4435, 14.8728, 19.7206**, and if you desaturate by 10%, it is **13.3079, 16.0054, 19.8410**.

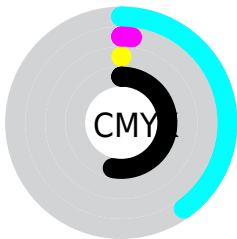
Distribution



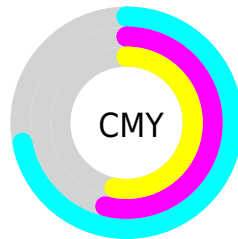
- Red (28%)
- Green (46%)
- Blue (47%)



- Red (28%)
- Yellow (37%)
- Blue (47%)



- Cyan (40%)
- Magenta (2%)
- Yellow (0%)
- Black (53%)



- Cyan (72%)
- Magenta (54%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2896, 15.3941, 19.7764 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 12.2896, 15.3941, 19.7764 by changing the saturation by 10% instead.

■ 12.2896, 15.3941,
19.7764

■ 12.2896, 15.3941,
19.7764

200.0442,
225.7394, 263.2661

■ 7.0148, 9.0964,
12.0502

■ 29.6338, 35.5431,
43.8960

■ 3.5178, 4.8041,
6.6549

■ 42.4339, 50.1632,
61.1265

■ 1.4331, 2.1328,
3.1721

■ 58.4731, 68.3262,
82.3621

■ 0.2796, 0.6830,
1.1832

■ 78.1169, 90.4166,
108.0213

■ 0.0000, 0.0000,
0.0000

■ 101.7305,
116.8187, 138.5228

129.6794,

147.9170, 174.2851

162.3288,
184.0957, 215.7267

■ 12.2896, 15.3941,
19.7764

■ 12.2896, 15.3941,
19.7764

■ 11.4435, 14.8728,
19.7206

■ 13.3079, 16.0054,
19.8410

■ 10.7581, 14.4345,
19.6722

■ 14.5063, 16.7095,
19.9137

■ 10.2230, 14.0740,
19.6308

■ 15.8936, 17.5116,
19.9954

■ 9.8255, 13.7850,
19.5959

■ 17.4781, 18.4157,
20.0864

■ 9.5512, 13.5599,
19.5670

■ 19.2671, 19.4257,
20.1871

■ 9.3523, 13.3769,
19.5421

■ 21.2678, 20.5454,
20.2978

■ 23.4872, 21.7782,
20.4187

■ 25.9315, 23.1274,
20.5503

■ 28.6071, 24.5963,
20.6928

Harmonies

Analogous

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



12.1429, 15.3941, 15.7026



12.2896, 15.3941, 19.7764



13.0432, 15.3941, 23.5296

Triad

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



12.2896, 15.3941, 19.7764



16.8355, 15.3941, 21.9438



15.0127, 15.3941, 10.2706

Complementary

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



12.2896, 15.3941, 19.7764



11.1278, 9.1421, 7.1397

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.



16.3441, 15.3941, 11.4344



12.2896, 15.3941, 19.7764



17.4391, 15.3941, 17.8671

Square

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



12.2896, 15.3941, 19.7764



15.6496, 15.3941, 24.9125



17.2538, 15.3941, 14.0698



13.6588, 15.3941, 10.6162

Rectangle

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



12.2896, 15.3941, 19.7764



13.8159, 15.3941, 25.1356



17.2538, 15.3941, 14.0698



15.4789, 15.3941, 10.4907

Sweetspot

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



12.2901, 15.3947, 19.7768



27.9438, 31.0608, 35.7756



10.3850, 15.0093, 8.5841



6.5623, 7.3265, 8.4750



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.



12.2901, 15.3947, 19.7768



20.6462, 26.7293, 35.3242



9.8782, 10.5710, 18.9728



3.7709, 4.1304, 4.6887



9.9344, 14.2085, 20.7615



48.2511, 68.9188, 101.1199

Inverse Universe

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



13.0723, 9.7131, 18.0162



22.2610, 15.1725, 31.6508



12.9832, 12.8529, 7.7581



3.8204, 3.7554, 4.5808



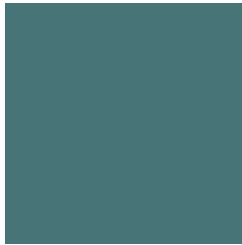
11.3116, 5.4583, 17.3807



55.0417, 26.5668, 84.2718

Previews

White Background



This preview shows how the XYZ color 12.2896, 15.3941, 19.7764 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 12.2896, 15.3941, 19.7764 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 12.2896, 15.3941, 19.7764

Background



This preview shows how black text looks on a background with the XYZ color 12.2896, 15.3941, 19.7764.



This preview shows how white text looks on a background with the XYZ color 12.2896, 15.3941,

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

12.2896, 15.3941, 19.7764

Protanopia

14.7065, 15.1912, 18.0767

Deuteranopia

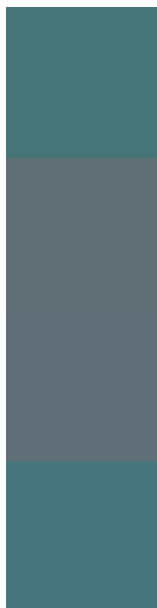
15.5447, 15.2660, 20.2165



Tritanopia

12.6947, 15.3879, 21.7031

Trichromacy



Original Color

12.2896, 15.3941, 19.7764

Protanomaly

13.5561, 15.0627, 18.7159

Deuteranomaly

14.0031, 15.1046, 19.9467

Tritanomaly

12.4930, 15.2986, 21.0334

Monochromacy



Original Color

12.2896, 15.3941, 19.7764

Achromatopsia

12.8919, 13.5633, 14.7705

Achromatomaly

12.4373, 14.0534, 16.5251

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2896, 15.3941, 19.7764 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, 117, 119)` looks like.

```
.text, #text, p{  
  color:rgb(71, 117, 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(71, 117, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 117, 119) }
```

Border

The CSS property to change the border of an element to XYZ 12.2896, 15.3941, 19.7764 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, 117, 119) }
```


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

```
.border{ border-color:rgb(71, 117, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 117, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 117, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 117, 119);  
box-shadow:4px 4px 4px 4px rgb(71, 117,  
119) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2896, 15.3941, 19.7764 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 117, 119) }
```

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

```
.background{ background-color: rgb(71, 117,  
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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