

Converting Colors

XYZ(12.2961, 16.3563, 20.0692)

Have a look what the booklet for
XYZ(12.2961, 16.3563, 20.0692)
contains.

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Color

**XYZ(12.2138, 16.2431,
19.9443)**

Conversions

Conversions Part 1

Format	Color
Hex	3D7A77
RGB	61, 122, 119
RGB Percent	24%, 48%, 47%
CMY	0.7608, 0.5216, 0.5333
CMYK	0.50, 0.00, 0.02, 0.52
HSL	177°, 33%, 36%
HSV	177°, 50%, 48%
XYZ	12.2138, 16.2431, 19.9443
YIQ	103.4190, -35.3930, -13.8650

Conversions

Conversions Part 2

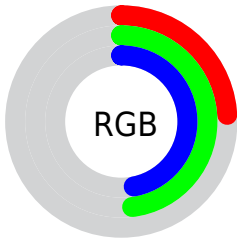
Format	Color
RYB	61, 92, 122
Decimal	4029047
CIELab	47.29, -20.50, -4.46
CIELCh	47, 20.976, 192.276
Yxy	16.2431, 0.2523, 0.3356
Android (android.graphics.Color)	4282219127 (0xFF3D7A77)
YUV	103.4190, 7.6814, -37.2015
Hunter-Lab	40.3027, -16.4351, -1.1285

Details

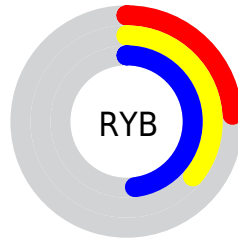
The XYZ color **12.2138, 16.2431, 19.9443** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **10.6208, 7.8457, 5.8057**, and the grayscale version is **12.9906, 13.6671, 14.8835**.

A 20% lighter version of the original color is **29.4907, 37.1109, 44.1369**, and **3.5199, 5.2200, 6.7833** is the 20% darker color. If you saturate the color by 10%, you get **11.5108, 15.8852, 19.7241**, and if you desaturate by 10%, it is **13.0889, 16.6904, 20.1744**.

Distribution



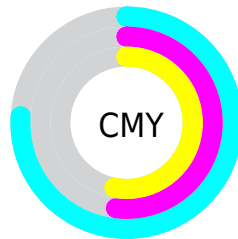
- Red (24%)
- Green (48%)
- Blue (47%)



- Red (24%)
- Yellow (36%)
- Blue (48%)



- Cyan (50%)
- Magenta (0%)
- Yellow (2%)
- Black (52%)



- Cyan (76%)
- Magenta (52%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2138, 16.2431, 19.9443 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 12.2138, 16.2431, 19.9443 by changing the saturation by 10% instead.

■ 12.2138, 16.2431,
19.9443

■ 12.2138, 16.2431,
19.9443

199.5567,
230.7720, 264.2077

■ 6.9627, 9.6963,
12.1709

■ 29.4974, 37.0197,
44.1815

■ 3.4849, 5.1981,
6.7362

■ 42.2606, 52.0184,
61.4824

■ 1.4151, 2.3640,
3.2218

■ 58.2585, 70.6031,
82.7962

■ 0.2669, 0.8073,
1.2089

■ 77.8566, 93.1583,
108.5414

■ 0.0000, 0.0000,
0.0000

■ 101.4200,
120.0684, 139.1367

129.3143,

151.7178, 175.0004

161.9048,
188.4909, 216.5512

■ 12.2138, 16.2431,
19.9443

■ 12.2138, 16.2431,
19.9443

■ 11.5108, 15.8852,
19.7241

■ 13.0889, 16.6904,
20.1744

■ 10.9667, 15.6089,
19.5123

■ 14.1452, 17.2308,
20.4138

■ 10.5688, 15.4078,
19.3084

■ 15.3932, 17.8699,
20.6634

■ 10.3017, 15.2742,
19.1118

■ 16.8417, 18.6124,
20.9236

■ 10.1122, 15.1806,
18.9201

■ 18.4994, 19.4627,
21.1947

■ 10.1122, 15.1806,
18.9201

■ 20.3742, 20.4249,
21.4773

■ 22.4737, 21.5029,
21.7715

■ 24.8052, 22.7004,
22.0778

■ 27.3755, 24.0211,
22.3965

Harmonies

Analogous

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



12.2889, 16.2431, 14.7593



12.2138, 16.2431, 19.9443



12.9508, 16.2431, 25.4720

Triad

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



12.2138, 16.2431, 19.9443



17.9602, 16.2431, 26.3562



16.5482, 16.2431, 9.6415

Complementary

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



12.2138, 16.2431, 19.9443



10.6208, 7.8457, 5.8057

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.



18.2262, 16.2431, 11.6742



12.2138, 16.2431, 19.9443



19.0851, 16.2431, 20.9760

Square

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



12.2138, 16.2431, 19.9443



16.2082, 16.2431, 29.6404



19.1862, 16.2431, 15.6049



14.6937, 16.2431, 9.4751

Rectangle

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



12.2138, 16.2431, 19.9443



13.8405, 16.2431, 28.3371



19.1862, 16.2431, 15.6049



17.1552, 16.2431, 10.1071

Sweetspot

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



12.2143, 16.2437, 19.9447



28.2170, 32.0199, 36.5617



9.9200, 15.3483, 6.8550



6.3555, 7.2720, 8.3423



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.



12.2143, 16.2437, 19.9447



20.0948, 27.8668, 34.6445



9.4896, 10.5014, 19.9399



4.0990, 4.5092, 5.0549



10.6452, 15.9817, 19.9143



50.6844, 76.1968, 94.4971

Inverse Universe

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



10.6208, 7.8457, 5.8057



16.9516, 11.2771, 6.7372



12.3957, 11.5287, 5.9872



4.0056, 4.0179, 4.2269



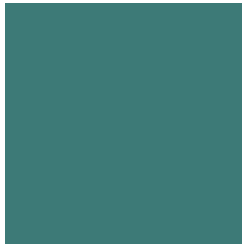
8.4838, 4.3697, 0.5728



40.3770, 20.8072, 2.2495

Previews

White Background



This preview shows how the XYZ color 12.2138, 16.2431, 19.9443 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 12.2138, 16.2431, 19.9443 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

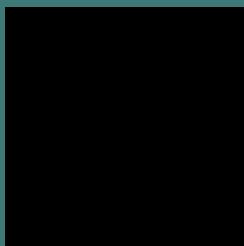
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2138, 16.2431, 19.9443

Background



This preview shows how black text looks on a background with the XYZ color 12.2138, 16.2431, 19.9443.



This preview shows how white text looks on a background with the XYZ color 12.2138, 16.2431,

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

12.2138, 16.2431, 19.9443

Protanopia

15.4751, 16.0718, 17.9093

Deuteranopia

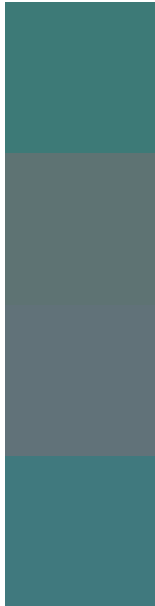
16.4527, 16.1940, 20.6710



Tritanopia

12.9257, 16.1685, 23.5587

Trichromacy



Original Color

12.2138, 16.2431, 19.9443

Protanomaly

13.8413, 15.8790, 18.5551

Deuteranomaly

14.3983, 15.9565, 20.4102

Tritanomaly

12.7176, 16.2711, 22.2090

Monochromacy



Original Color

12.2138, 16.2431, 19.9443

Achromatopsia

12.8919, 13.5633, 14.7705

Achromatomaly

12.3607, 14.3307, 16.5826

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2138, 16.2431, 19.9443 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(61, 122, 119)` looks like.

```
.text, #text, p{  
    color:rgb(61, 122, 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(61, 122, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 122, 119) }
```

Border

The CSS property to change the border of an element to XYZ 12.2138, 16.2431, 19.9443 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(61, 122, 119) }
```


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

```
.border{ border-color:rgb(61, 122, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(61, 122, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 122, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 122, 119);  
box-shadow:4px 4px 4px 4px rgb(61, 122,  
119) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2138, 16.2431, 19.9443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 122, 119) }
```

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

```
.background{ background-color: rgb(61, 122,  
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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