

Converting Colors

XYZ(12.7701, 16.4279, 21.8485)

Have a look what the booklet for
XYZ(12.7701, 16.4279, 21.8485)
contains.

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Color

**XYZ(12.8412, 16.5236,
21.9146)**

Conversions

Conversions Part 1

Format	Color
Hex	417A7D
RGB	65, 122, 125
RGB Percent	25%, 48%, 49%
CMY	0.7451, 0.5216, 0.5098
CMYK	0.48, 0.02, 0.00, 0.51
HSL	183°, 32%, 37%
HSV	183°, 48%, 49%
XYZ	12.8412, 16.5236, 21.9146
YIQ	105.2990, -34.9350, -11.1510

Conversions

Conversions Part 2

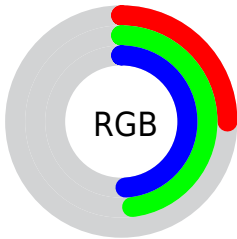
Format	Color
RYB	65, 94, 125
Decimal	4291197
CIELab	47.65, -17.81, -7.46
CIElCh	48, 19.308, 202.725
Yxy	16.5236, 0.2504, 0.3222
Android (android.graphics.Color)	4282481277 (0xFF417A7D)
YUV	105.2990, 9.7126, -35.3422
Hunter-Lab	40.6492, -14.7475, -3.5097

Details

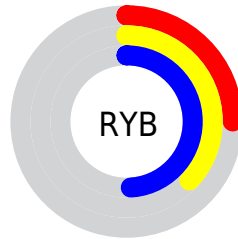
The XYZ color **12.8412, 16.5236, 21.9146** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.4790, 8.8761, 6.1097**, and the grayscale version is **13.4900, 14.1926, 15.4557**.

A 20% lighter version of the original color is **30.7020, 37.6562, 47.7697**, and **3.7496, 5.3192, 7.6665** is the 20% darker color. If you saturate the color by 10%, you get **12.0273, 15.9909, 21.8550**, and if you desaturate by 10%, it is **13.8398, 17.1530, 21.9837**.

Distribution



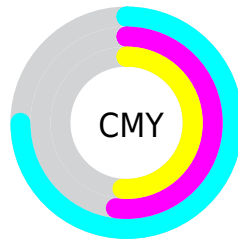
- Red (25%)
- Green (48%)
- Blue (49%)



- Red (25%)
- Yellow (37%)
- Blue (49%)



- Cyan (48%)
- Magenta (2%)
- Yellow (0%)
- Black (51%)



- Cyan (75%)
- Magenta (52%)
- Yellow (51%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8412, 16.5236, 21.9146 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 12.8412, 16.5236, 21.9146 by changing the saturation by 10% instead.

■ 12.8412, 16.5236,
21.9146

■ 12.8412, 16.5236,
21.9146

203.5557,
232.4119, 275.0389

■ 7.3955, 9.8954,
13.5964

■ 30.6219, 37.5048,
47.5052

■ 3.7592, 5.3297,
7.7050

■ 43.6877, 52.6267,
65.6147

■ 1.5668, 2.4420,
3.8217

■ 60.0243, 71.3486,
87.8251

■ 0.3706, 0.8474,
1.5281

■ 79.9969, 94.0548,
114.5549

■ 0.0000, 0.0000,
0.2387

■ 103.9710,
121.1299, 146.2226

■ 0.0000, 0.0000,
0.0000

132.3119,

152.9582, 183.2468

165.3850,
189.9240, 226.0461

■ 12.8412, 16.5236,
21.9146

■ 12.8412, 16.5236,
21.9146

■ 12.0273, 15.9909,
21.8550

■ 13.8398, 17.1530,
21.9837

■ 11.3843, 15.5466,
21.8031

■ 15.0327, 17.8830,
22.0618

■ 10.8990, 15.1844,
21.7588

■ 16.4306, 18.7193,
22.1495

■ 10.5557, 14.8961,
21.7212

■ 18.0430, 19.6670,
22.2475

■ 10.3155, 14.6617,
21.6886

■ 19.8788, 20.7306,
22.3560

■ 10.2693, 14.6158,
21.6822

■ 21.9465, 21.9144,
22.4755

■ 24.2540, 23.2226,
22.6064

■ 26.8088, 24.6591,
22.7490

■ 29.6184, 26.2277,
22.9037

Harmonies

Analogous

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



12.6405, 16.5236, 16.8156



12.8412, 16.5236, 21.9146



13.7815, 16.5236, 26.6546

Triad

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



12.8412, 16.5236, 21.9146



18.4940, 16.5236, 24.3768



16.1288, 16.5236, 10.1204

Complementary

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



12.8412, 16.5236, 21.9146



11.4790, 8.8761, 6.1097

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.



17.8000, 16.5236, 11.4438



12.8412, 16.5236, 21.9146



19.2290, 16.5236, 19.2208

Square

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



12.8412, 16.5236, 21.9146



17.0212, 16.5236, 28.2479



18.9662, 16.5236, 14.5668



14.4588, 16.5236, 10.5773

Rectangle

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



12.8412, 16.5236, 21.9146



14.7410, 16.5236, 28.6672



18.9662, 16.5236, 14.5668



16.7105, 16.5236, 10.3621

Sweetspot

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



12.8417, 16.5242, 21.9150



30.4340, 34.1187, 39.7259



10.5271, 16.1966, 7.8820



6.8083, 7.6933, 9.0292



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.



12.8417, 16.5242, 21.9150



21.3579, 28.5143, 39.1225



9.7964, 10.4336, 20.8999



4.4286, 4.8512, 5.5162



10.7164, 15.2512, 22.6289



0.0000, 0.0000, 0.0000

Inverse Universe

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



13.8610, 9.5461, 19.5251



23.4575, 14.4928, 34.1211



13.6866, 13.2914, 6.8456



4.4892, 4.4088, 5.3805



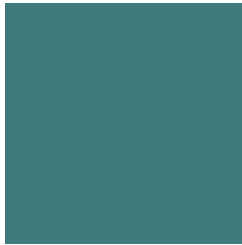
12.2861, 5.9341, 18.6282



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.8412, 16.5236, 21.9146 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 12.8412, 16.5236, 21.9146 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

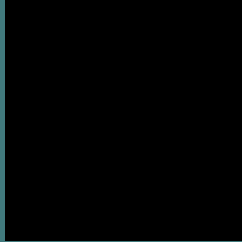
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8412, 16.5236, 21.9146

Background



This preview shows how black text looks on a background with the XYZ color 12.8412, 16.5236, 21.9146.



This preview shows how white text looks on a background with the XYZ color 12.8412, 16.5236,

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

12.8412, 16.5236, 21.9146

Protanopia

15.9340, 16.4310, 19.7844

Deuteranopia

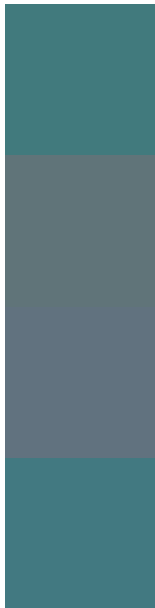
16.6747, 16.4234, 22.7133



Tritanopia

13.2488, 16.5067, 23.9606

Trichromacy



Original Color

12.8412, 16.5236, 21.9146

Protanomaly

14.5205, 16.3581, 20.4813

Deuteranomaly

14.7778, 16.1083, 22.4090

Tritanomaly

13.0466, 16.4180, 23.2502

Monochromacy



Original Color

12.8412, 16.5236, 21.9146

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.8255, 14.7124, 17.4930

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8412, 16.5236, 21.9146 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(65, 122, 125)` looks like.

```
.text, #text, p{  
    color:rgb(65, 122, 125)  
}
```

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(65, 122, 125) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 122, 125) }
```

Border

The CSS property to change the border of an element to XYZ 12.8412, 16.5236, 21.9146 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(65, 122, 125) }
```


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

```
.border{ border-color:rgb(65, 122, 125) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 122, 125)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 122, 125); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 122, 125);  
box-shadow:4px 4px 4px 4px rgb(65, 122,  
125) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8412, 16.5236, 21.9146 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 122, 125) }
```

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

```
.background{ background-color: rgb(65, 122,  
125) }
```

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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