

Converting Colors

XYZ(12.4713, 16.2233, 29.2625)

Have a look what the booklet for
XYZ(12.4713, 16.2233, 29.2625)
contains.

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Color

**XYZ(12.4471, 16.1576,
29.2508)**

Conversions

Conversions Part 1

Format	Color
Hex	187A91
RGB	24, 122, 145
RGB Percent	9%, 48%, 57%
CMY	0.9058, 0.5216, 0.4314
CMYK	0.83, 0.16, 0.00, 0.43
HSL	191°, 72%, 33%
HSV	191°, 83%, 57%
XYZ	12.4471, 16.1576, 29.2508
YIQ	95.3200, -65.7910, -13.6230

Conversions

Conversions Part 2

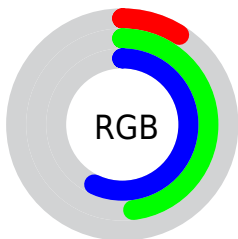
Format	Color
R_{YB}	24, 78, 145
Decimal	1604241
CIE _{Lab}	47.18, -18.42, -20.12
CIE _{LCh}	47, 27.276, 227.522
Yxy	16.1576, 0.2151, 0.2793
Android (android.graphics.Color)	4279794321 (0xFF187A91)
YUV	95.3200, 24.4922, -62.5476
Hunter-Lab	40.1965, -15.0703, -15.0075

Details

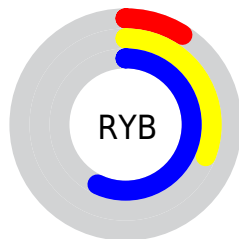
The XYZ color **12.4471, 16.1576, 29.2508** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.8592, 8.1198, 1.7544**, and the grayscale version is **10.9094, 11.4776, 12.4991**.

A 20% lighter version of the original color is **30.0524, 37.0588, 59.6020**, and **4.4029, 5.5732, 11.4334** is the 20% darker color. If you saturate the color by 10%, you get **11.8560, 15.3578, 29.1279**, and if you desaturate by 10%, it is **13.2323, 17.0723, 29.3863**.

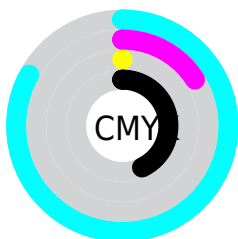
Distribution



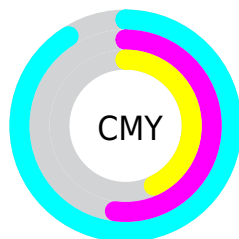
- Red (9%)
- Green (48%)
- Blue (57%)



- Red (9%)
- Yellow (31%)
- Blue (57%)



- Cyan (83%)
- Magenta (16%)
- Yellow (0%)
- Black (43%)



- Cyan (91%)
- Magenta (52%)
- Yellow (43%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4471, 16.1576, 29.2508 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 12.4471, 16.1576, 29.2508 by changing the saturation by 10% instead.

■ 12.4471, 16.1576,
29.2508

■ 12.4471, 16.1576,
29.2508

201.0532,
230.2699, 312.4943

■ 7.1233, 9.6357,
19.0234

■ 29.9167, 36.8716,
59.5223

■ 3.5863, 5.1581,
11.5102

■ 42.7932, 51.8325,
80.4034

■ 1.4709, 2.3403,
6.2927

■ 58.9179, 70.3752,
105.6729

■ 0.3059, 0.7949,
2.9522

■ 78.6563, 92.8842,
135.7493

■ 0.0000, 0.0000,
1.0703

■ 102.3737,
119.7437, 171.0511

■ 0.0000, 0.0000,
0.0000

■ 130.4354,

151.3383, 211.9968

163.2068,
188.0522, 259.0051

■ 12.4471, 16.1576,
29.2508

■ 12.4471, 16.1576,
29.2508

■ 11.8560, 15.3578,
29.1279

■ 13.2323, 17.0723,
29.3863

■ 11.5232, 14.8690,
29.0511

■ 14.2358, 18.1136,
29.5344

■ 15.4797, 19.2933,
29.6965

■ 16.9830, 20.6213,
29.8736

■ 18.7627, 22.1065,
30.0665

■ 20.8343, 23.7571,
30.2759

■ 23.2122, 25.5804,
30.5025

■ 25.9097, 27.5835,
30.7470

■ 28.9394, 29.7731,
31.0099

Harmonies

Analogous

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



11.3638, 16.1576, 21.8792



12.4471, 16.1576, 29.2508



14.3817, 16.1576, 33.9082

Triad

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



12.4471, 16.1576, 29.2508



20.3178, 16.1576, 20.6056



14.0095, 16.1576, 7.7601

Complementary

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



12.4471, 16.1576, 29.2508



12.8592, 8.1198, 1.7544

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.



16.3761, 16.1576, 7.5870



12.4471, 16.1576, 29.2508



20.1914, 16.1576, 13.9064

Square

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



12.4471, 16.1576, 29.2508



19.0183, 16.1576, 28.1118



18.6891, 16.1576, 9.5351



12.1991, 16.1576, 10.0923

Rectangle

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



12.4471, 16.1576, 29.2508



15.9693, 16.1576, 34.2165



18.6891, 16.1576, 9.5351



14.7611, 16.1576, 7.4743

Sweetspot

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



12.4476, 16.1582, 29.2512



36.4940, 41.9045, 54.1385



10.9995, 20.6442, 6.0099



7.8558, 9.1139, 12.0173



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.4476, 16.1582, 29.2512



20.5160, 26.3876, 51.9856



7.2283, 5.7195, 27.5114



5.4743, 5.9445, 6.8876



9.9014, 12.7889, 24.9237



0.1092, 0.1513, 0.2431

Inverse Universe

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



15.5171, 8.0788, 19.1544



26.6476, 13.0747, 31.1822



17.0674, 16.5363, 3.1571



5.5829, 5.4937, 6.5676



12.8009, 6.2774, 15.1347



0.1297, 0.0629, 0.1832

Previews

White Background



This preview shows how the XYZ color 12.4471, 16.1576, 29.2508 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 12.4471, 16.1576, 29.2508 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 12.4471, 16.1576, 29.2508

Background



This preview shows how black text looks on a background with the XYZ color 12.4471, 16.1576, 29.2508.

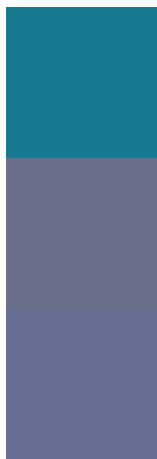


This preview shows how white text looks on a background with the XYZ color 12.4471, 16.1576,

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

12.4471, 16.1576, 29.2508

Protanopia

15.9170, 15.9613, 25.9088

Deuteranopia

16.4007, 16.1148, 30.2630



Tritanopia

11.5107, 16.1365, 25.0622

Trichromacy



Original Color

12.4471, 16.1576, 29.2508

Protanomaly

13.7314, 15.4646, 27.0722

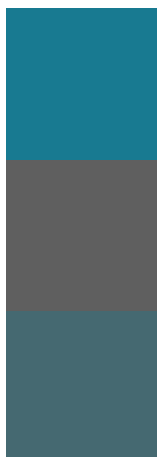
Deuteranomaly

14.1078, 15.5971, 29.8707

Tritanomaly

11.7831, 16.0590, 26.5234

Monochromacy



Original Color

12.4471, 16.1576, 29.2508

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

10.4865, 12.5606, 17.4945

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4471, 16.1576, 29.2508 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(24, 122, 145)` looks like.

```
.text, #text, p{  
    color:rgb(24, 122, 145)  
}
```

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(24, 122, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(24, 122, 145) }
```

Border

The CSS property to change the border of an element to XYZ 12.4471, 16.1576, 29.2508 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(24, 122, 145) }
```


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

```
.border{ border-color:rgb(24, 122, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(24, 122, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(24, 122, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(24, 122, 145);  
box-shadow:4px 4px 4px 4px rgb(24, 122,  
145) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4471, 16.1576, 29.2508 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(24, 122, 145) }
```

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

```
.background{ background-color: rgb(24, 122,  
145) }
```

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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