

Converting Colors

XYZ(12.8246, 16.2218, 28.5621)

Have a look what the booklet for
XYZ(12.8246, 16.2218, 28.5621)
contains.

XYZ(12.7916, 16.1715, 28.4338)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.7916, 16.1715,
28.4338)**

Conversions

Conversions Part 1

Format	Color
Hex	2B798F
RGB	43, 121, 143
RGB Percent	17%, 47%, 56%
CMY	0.8313, 0.5255, 0.4392
CMYK	0.70, 0.15, 0.00, 0.44
HSL	193°, 54%, 36%
HSV	193°, 70%, 56%
XYZ	12.7916, 16.1715, 28.4338
YIQ	100.1860, -53.5500, -9.6940

Conversions

Conversions Part 2

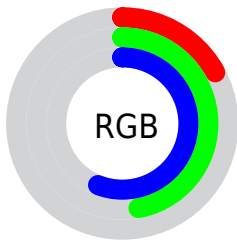
Format	Color
RYB	43, 87, 143
Decimal	2849167
CIELab	47.20, -16.18, -18.87
CIELCh	47, 24.857, 229.399
Yxy	16.1715, 0.2229, 0.2817
Android (android.graphics.Color)	4281039247 (0xFF2B798F)
YUV	100.1860, 21.1073, -50.1521
Hunter-Lab	40.2138, -13.5951, -13.7723

Details

The XYZ color **12.7916, 16.1715, 28.4338** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **13.6547, 9.7955, 3.4573**, and the grayscale version is **12.1189, 12.7500, 13.8848**.

A 20% lighter version of the original color is **30.5011, 36.7431, 58.3079**, and **4.2931, 5.4250, 11.1768** is the 20% darker color. If you saturate the color by 10%, you get **11.9179, 15.1630, 28.2855**, and if you desaturate by 10%, it is **13.8891, 17.3145, 28.5969**.

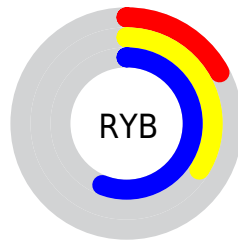
Distribution



Red (17%)

Green (47%)

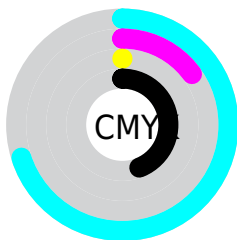
Blue (56%)



Red (17%)

Yellow (34%)

Blue (56%)

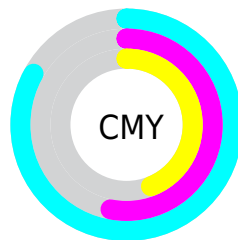


Cyan (70%)

Magenta (15%)

Yellow (0%)

Black (44%)



Cyan (83%)

Magenta (53%)

Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7916, 16.1715, 28.4338 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 12.7916, 16.1715, 28.4338 by changing the saturation by 10% instead.

12.7916, 16.1715,
28.4338

12.7916, 16.1715,
28.4338

203.2424,
230.3516, 308.5109

7.3612, 9.6456,
18.4110

30.5334, 36.8957,
58.2077

3.7373, 5.1646,
11.0730

43.5755, 51.8627,
78.7959

1.5546, 2.3442,
6.0012

59.8855, 70.4123,
103.7430

0.3626, 0.7969,
2.7770

79.8289, 92.9288,
133.4676

0.0000, 0.0000,
0.9819

103.7709,
119.7966, 168.3881

0.0000, 0.0000,
0.0000

132.0769,

151.4000, 208.9231

165.1123,
188.1236, 255.4912

■ 12.7916, 16.1715,
28.4338

■ 12.7916, 16.1715,
28.4338

■ 11.9179, 15.1630,
28.2855

■ 13.8891, 17.3145,
28.5969

■ 11.2431, 14.2751,
28.1497

■ 15.2287, 18.6006,
28.7745

■ 10.7054, 13.4761,
28.0238

■ 16.8285, 20.0398,
28.9680

■ 10.7015, 13.4702,
28.0229

■ 18.7045, 21.6404,
29.1781

■ 20.8713, 23.4100,
29.4054

■ 23.3424, 25.3559,
29.6508

■ 26.1305, 27.4847,
29.9147

■ 29.2476, 29.8028,
30.1979

■ 32.7049, 32.3161,
30.5008

Harmonies

Analogous

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



11.7335, 16.1715, 21.9215



12.7916, 16.1715, 28.4338



14.6094, 16.1715, 32.3074

Triad

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



12.7916, 16.1715, 28.4338



19.8885, 16.1715, 19.9193



14.0149, 16.1715, 8.5119

Complementary

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



12.7916, 16.1715, 28.4338



13.6547, 9.7955, 3.4573

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.



16.1577, 16.1715, 8.2206



12.7916, 16.1715, 28.4338



19.6908, 16.1715, 13.9011

Square

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



12.7916, 16.1715, 28.4338



18.7917, 16.1715, 26.6723



18.2747, 16.1715, 9.9518



12.3920, 16.1715, 10.8723

Rectangle

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



12.7916, 16.1715, 28.4338



16.0680, 16.1715, 32.3733



18.2747, 16.1715, 9.9518



14.6936, 16.1715, 8.1942

Sweetspot

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



12.7921, 16.1721, 28.4342



36.7529, 41.4219, 52.5962



11.7638, 20.5368, 8.2954



8.2030, 9.3166, 12.0381



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.



12.7921, 16.1721, 28.4342



20.5955, 26.1993, 50.5095



8.2294, 7.0467, 26.9133



5.4610, 5.9178, 6.8832



9.4778, 11.9416, 24.7825



0.1067, 0.1463, 0.2423

Inverse Universe

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



15.6433, 8.9485, 18.9924



26.3919, 13.6343, 30.8386



17.8571, 18.2004, 4.8581



5.5762, 5.4910, 6.5321



12.5871, 6.1918, 14.0088



0.1284, 0.0624, 0.1766

Previews

White Background



This preview shows how the XYZ color 12.7916, 16.1715, 28.4338 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 12.7916, 16.1715, 28.4338 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

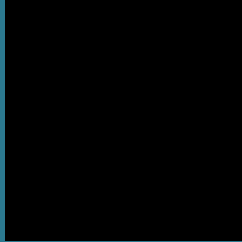
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7916, 16.1715, 28.4338

Background



This preview shows how black text looks on a background with the XYZ color 12.7916, 16.1715, 28.4338.

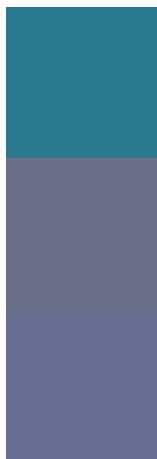


This preview shows how white text looks on a background with the XYZ color 12.7916, 16.1715,

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

12.7916, 16.1715, 28.4338

Protanopia

15.8930, 15.9653, 25.1656

Deuteranopia

16.4732, 16.1702, 29.4471



Tritanopia

12.0442, 16.2344, 24.6891

Trichromacy



Original Color

12.7916, 16.1715, 28.4338

Protanomaly

14.1720, 15.7086, 26.3299

Deuteranomaly

14.6078, 15.8728, 29.0819

Tritanomaly

12.3116, 16.1565, 26.1365

Monochromacy



Original Color

12.7916, 16.1715, 28.4338

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

11.7394, 13.6483, 18.5387

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7916, 16.1715, 28.4338 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(43, 121, 143)` looks like.

```
.text, #text, p{  
    color:rgb(43, 121, 143)  
}
```

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(43, 121, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(43, 121, 143) }
```

Border

The CSS property to change the border of an element to XYZ 12.7916, 16.1715, 28.4338 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(43, 121, 143) }
```


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

```
.border{ border-color:rgb(43, 121, 143) }
```

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

Here you see how a box with a 4 pixel `rgb(43, 121, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(43, 121, 143); -webkit-box-shadow:4px 4px 4px 4px rgb(43, 121, 143); box-shadow:4px 4px 4px 4px rgb(43, 121, 143) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7916, 16.1715, 28.4338 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(43, 121, 143) }
```

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

```
.background{ background-color: rgb(43, 121,  
143) }
```

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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