

Converting Colors

XYZ(12.9217, 14.7687, 29.9597)

Have a look what the booklet for
XYZ(12.9217, 14.7687, 29.9597)
contains.

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Color

**XYZ(12.9165, 14.8164,
29.7828)**

Conversions

Conversions Part 1

Format	Color
Hex	3A7193
RGB	58, 113, 147
RGB Percent	23%, 44%, 58%
CMY	0.7725, 0.5569, 0.4235
CMYK	0.61, 0.23, 0.00, 0.42
HSL	203°, 43%, 40%
HSV	203°, 61%, 58%
XYZ	12.9165, 14.8164, 29.7828
YIQ	100.4310, -43.6940, -1.0860

Conversions

Conversions Part 2

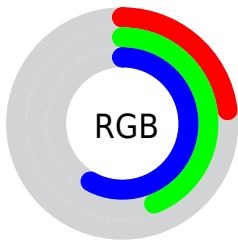
Format	Color
RYB	58, 92, 147
Decimal	3830163
CIELab	45.38, -7.51, -24.00
CIElCh	45, 25.145, 252.614
Yxy	14.8164, 0.2246, 0.2576
Android (android.graphics.Color)	4282020243 (0xFF3A7193)
YUV	100.4310, 22.9585, -37.2120
Hunter-Lab	38.4921, -7.4632, -18.9305




Details

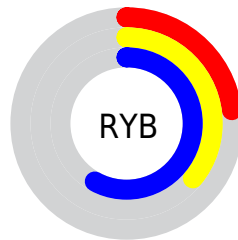
The XYZ color **12.9165, 14.8164, 29.7828** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **16.6240, 14.1634, 5.8612**, and the grayscale version is **12.1748, 12.8089, 13.9489**.




A 20% lighter version of the original color is **30.8078, 34.6380, 60.3204**, and **4.0016, 4.6251, 11.7482** is the 20% darker color. If you saturate the color by 10%, you get **11.5736, 13.2229, 29.5463**, and if you desaturate by 10%, it is **14.5432, 16.6144, 30.0444**.

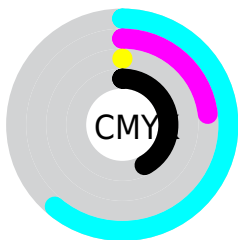
Distribution







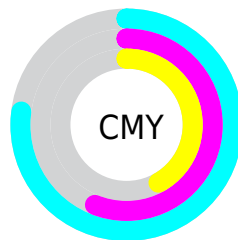
-  Red (23%)
-  Green (44%)
-  Blue (58%)






-  Red (23%)
-  Yellow (36%)
-  Blue (58%)



-  Cyan (61%)
-  Magenta (23%)
-  Yellow (0%)
-  Black (42%)



-  Cyan (77%)
-  Magenta (56%)
-  Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9165, 14.8164, 29.7828 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 12.9165, 14.8164, 29.7828 by changing the saturation by 10% instead.

■ 12.9165, 14.8164,
29.7828

■ 12.9165, 14.8164,
29.7828

204.0303,
222.2522, 315.0664

■ 7.4477, 8.6906,
19.4231

■ 30.7563, 34.5308,
60.3755

■ 3.7924, 4.5399,
11.7965

■ 43.8580, 48.8882,
81.4455

■ 1.5854, 1.9800,
6.4844

■ 60.2346, 66.7582,
106.9228

■ 0.3829, 0.5958,
3.0683

■ 80.2516, 88.5253,
137.2259

■ 0.0000, 0.0000,
1.1296

■ 104.2743,
114.5739, 172.7732

■ 0.0000, 0.0000,
0.0000

132.6681,

145.2883, 213.9834

165.7983,
181.0529, 261.2750

■ 12.9165, 14.8164,
29.7828

■ 12.9165, 14.8164,
29.7828

■ 11.5736, 13.2229,
29.5463

■ 14.5432, 16.6144,
30.0444

■ 10.4909, 11.8197,
29.3325

■ 16.4718, 18.6262,
30.3311

■ 9.6431, 10.5932,
29.1404

■ 18.7204, 20.8627,
30.6442

■ 8.9942, 9.5619,
28.9756

■ 21.3054, 23.3330,
30.9848

■ 24.2417, 26.0458,
31.3537

■ 27.5436, 29.0095,
31.7517

■ 31.2242, 32.2317,
32.1797

■ 35.2963, 35.7199,
32.6383

■ 39.7719, 39.4810,
33.1284

Harmonies

Analogous

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



11.3295, 14.8164, 25.2378



12.9165, 14.8164, 29.7828



14.9777, 14.8164, 30.1573

Triad

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



12.9165, 14.8164, 29.7828



18.3755, 14.8164, 13.7494



11.5352, 14.8164, 9.0633

Complementary

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



12.9165, 14.8164, 29.7828



16.6240, 14.1634, 5.8612

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.



13.2238, 14.8164, 7.3116



12.9165, 14.8164, 29.7828



17.2490, 14.8164, 9.5322

Square

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



12.9165, 14.8164, 29.7828



18.2724, 14.8164, 19.8184



15.3167, 14.8164, 7.4588



10.5878, 14.8164, 12.9346

Rectangle

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



12.9165, 14.8164, 29.7828



16.3594, 14.8164, 27.8865



15.3167, 14.8164, 7.4588



12.0274, 14.8164, 8.2556

Sweetspot

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



12.9170, 14.8169, 29.7832



39.2421, 42.8032, 55.6282



14.0516, 22.5164, 13.4209



8.6525, 9.4849, 12.6596



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.9170, 14.8169, 29.7832



19.9053, 22.6456, 52.7565



9.1937, 7.3704, 28.5421



5.7799, 6.1937, 7.3606



7.8218, 8.3383, 25.1282



0.1243, 0.1592, 0.3171

Inverse Universe

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



16.5267, 10.4219, 16.7639



27.3419, 15.3651, 25.5370



21.4793, 23.8741, 7.4796



5.9423, 5.8720, 6.8025



12.0751, 6.0351, 9.1427



0.1622, 0.0796, 0.1878

Previews

White Background



This preview shows how the XYZ color 12.9165, 14.8164, 29.7828 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 12.9165, 14.8164, 29.7828 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 12.9165, 14.8164, 29.7828

Background



This preview shows how black text looks on a background with the XYZ color 12.9165, 14.8164, 29.7828.

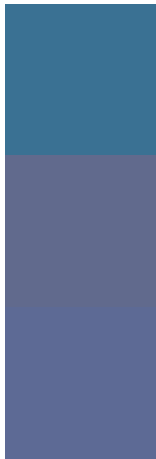


This preview shows how white text looks on a background with the XYZ color 12.9165, 14.8164,

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

12.9165, 14.8164, 29.7828

Protanopia

14.8915, 14.7725, 27.2658

Deuteranopia

15.0931, 14.8052, 30.4960



Tritanopia

11.3938, 14.8819, 22.0106

Trichromacy



Original Color

12.9165, 14.8164, 29.7828

Protanomaly

13.9938, 14.7594, 28.0979

Deuteranomaly

14.1222, 14.7809, 30.1256

Tritanomaly

11.9646, 14.9421, 24.8078

Monochromacy



Original Color

12.9165, 14.8164, 29.7828

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.0088, 13.3188, 18.7675

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9165, 14.8164, 29.7828 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(58, 113, 147)` looks like.

```
.text, #text, p{  
    color:rgb(58, 113, 147)  
}
```

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(58, 113, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(58, 113, 147) }
```

Border

The CSS property to change the border of an element to XYZ 12.9165, 14.8164, 29.7828 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(58, 113, 147) }
```


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

```
.border{ border-color:rgb(58, 113, 147) }
```

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

Here you see how a box with a 4 pixel `rgb(58, 113, 147)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(58, 113, 147); -webkit-box-  
shadow:4px 4px 4px 4px rgb(58, 113, 147);  
box-shadow:4px 4px 4px 4px rgb(58, 113,  
147) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9165, 14.8164, 29.7828 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(58, 113, 147) }
```

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

```
.background{ background-color: rgb(58, 113,  
147) }
```

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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