

Converting Colors

XYZ(7.7668, 13.4788, 32.8442)

Have a look what the booklet for
XYZ(7.7668, 13.4788, 32.8442)
contains.

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Color

**XYZ(12.6701, 16.0078,
32.9939)**

Conversions

Conversions Part 1

Format	Color
Hex	00799A
RGB	0, 121, 154
RGB Percent	0%, 47%, 60%
CMY	0.9999, 0.5255, 0.3961
CMYK	1.00, 0.21, 0.00, 0.40
HSL	193°, 100%, 30%
HSV	193°, 100%, 60%
XYZ	12.6701, 16.0078, 32.9939
YIQ	88.5830, -82.7090, -15.3890

Conversions

Conversions Part 2

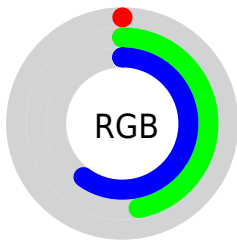
Format	Color
RYB	0, 68, 154
Decimal	31130
CIELab	46.98, -16.07, -25.74
CIELCh	47, 30.344, 238.025
Yxy	16.0078, 0.2054, 0.2596
Android (android.graphics.Color)	4278221210 (0xFF00799A)
YUV	88.5830, 32.2506, -77.6873
Hunter-Lab	40.0097, -13.4905, -20.8865

Details

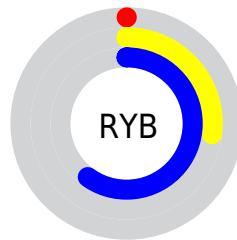
The XYZ color **12.6701, 16.0078, 32.9939** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **13.8713, 7.9593, 0.8059**, and the grayscale version is **9.3497, 9.8366, 10.7121**.

A 20% lighter version of the original color is **30.2899, 36.4690, 65.7644**, and **4.7655, 5.6140, 13.6644** is the 20% darker color. If you saturate the color by 10%, you get **12.6697, 16.0069, 32.9941**, and if you desaturate by 10%, it is **13.2823, 16.9294, 33.1398**.

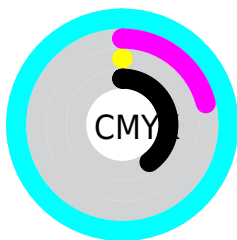
Distribution



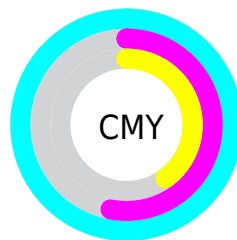
- Red (0%)
- Green (47%)
- Blue (60%)



- Red (0%)
- Yellow (27%)
- Blue (60%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)
- Black (40%)



- Cyan (100%)
- Magenta (53%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6701, 16.0078, 32.9939 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 12.6701, 16.0078, 32.9939 by changing the saturation by 10% instead.

12.6701, 16.0078,
32.9939

12.6701, 16.0078,
32.9939

202.4731,
229.3877, 330.2534

7.2772, 9.5297,
21.8507

30.3162, 36.6117,
65.4819

3.6839, 5.0882,
13.5500

43.3001, 51.5064,
87.6638

1.5249, 2.2991,
7.6732

59.5451, 69.9752,
114.3623

0.3427, 0.7733,
3.8018

79.4164, 92.4028,
145.9960

0.0000, 0.0000,
1.5172

103.2796,
119.1734, 182.9834

0.0000, 0.0000,
0.2307

131.4998,

0.0000, 0.0000,

150.6716, 225.7431

0.0000

164.4425,
187.2815, 274.6936

■ 12.6701, 16.0078,
32.9939

■ 12.6701, 16.0078,
32.9939

■ 12.6697, 16.0069,
32.9941

■ 13.2823, 16.9294,
33.1398

■ 14.0600, 17.9565,
33.2971

■ 15.0730, 19.1257,
33.4694

■ 16.3493, 20.4517,
33.6581

■ 17.9129, 21.9469,
33.8643

■ 19.7852, 23.6225,
34.0890

■ 21.9852, 25.4887,
34.3333

■ 24.5304, 27.5545,
34.5979

■ 27.4373, 29.8286,
34.8836

Harmonies

Analogous

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



11.1412, 16.0078, 25.2357



12.6701, 16.0078, 32.9939



15.0398, 16.0078, 36.4894

Triad

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



12.6701, 16.0078, 32.9939



20.9044, 16.0078, 17.9381



12.9415, 16.0078, 7.4519

Complementary

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



12.6701, 16.0078, 32.9939



13.8713, 7.9593, 0.8059

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.



15.3914, 16.0078, 6.5257



12.6701, 16.0078, 32.9939



20.1774, 16.0078, 11.4265

Square

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



12.6701, 16.0078, 32.9939



19.9659, 16.0078, 26.3682



18.0796, 16.0078, 7.7413



11.2846, 16.0078, 10.7810

Rectangle

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



12.6701, 16.0078, 32.9939



16.8488, 16.0078, 35.3423



18.0796, 16.0078, 7.7413



13.6902, 16.0078, 6.9007

Sweetspot

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



12.6707, 16.0084, 32.9943



39.6724, 46.0818, 62.3400



11.8010, 23.2096, 5.1419



8.6111, 10.1213, 14.0701



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



12.6707, 16.0084, 32.9943



22.8696, 28.7862, 59.8872



6.8187, 4.3044, 31.0436



6.2722, 6.8018, 7.9113



10.3488, 13.0942, 26.8897



0.1798, 0.2459, 0.4104

Inverse Universe

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



16.7781, 8.2512, 18.7979



30.4039, 14.9581, 33.7571



18.6691, 17.5549, 2.4052



6.4045, 6.3010, 7.5103



13.6823, 6.7272, 15.3841



0.2172, 0.1056, 0.2966

Previews

White Background



This preview shows how the XYZ color 12.6701, 16.0078, 32.9939 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 12.6701, 16.0078, 32.9939 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

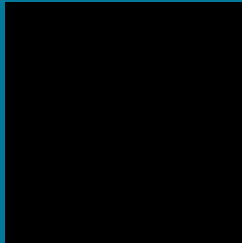
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.6701, 16.0078, 32.9939

Background



This preview shows how black text looks on a background with the XYZ color 12.6701, 16.0078, 32.9939.

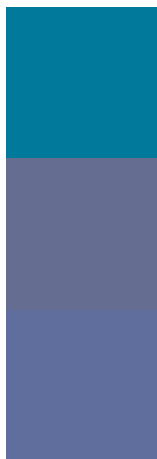


This preview shows how white text looks on a background with the XYZ color 12.6701, 16.0078,

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

12.6701, 16.0078, 32.9939

Protanopia

16.0536, 15.9629, 29.0231

Deuteranopia

16.3810, 16.0191, 34.1269



Tritanopia

11.4413, 16.1088, 24.6966

Trichromacy



Original Color

12.6701, 16.0078, 32.9939

Protanomaly

13.4770, 15.2627, 30.2527

Deuteranomaly

13.8815, 15.3956, 33.6925

Tritanomaly

11.8907, 16.0890, 27.6781

Monochromacy



Original Color

12.6701, 16.0078, 32.9939

Achromatopsia

9.4954, 9.9899, 10.8790

Achromatomaly

9.3217, 11.3695, 17.3260

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6701, 16.0078, 32.9939 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(0, 121, 154)` looks like.

```
.text, #text, p{  
    color:rgb(0, 121, 154)  
}
```

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(0, 121, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 121, 154) }
```

Border

The CSS property to change the border of an element to XYZ 12.6701, 16.0078, 32.9939 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(0, 121, 154) }
```


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

```
.border{ border-color:rgb(0, 121, 154) }
```

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

Here you see how a box with a 4 pixel rgb(0, 121, 154) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 121, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 121, 154);  
box-shadow:4px 4px 4px 4px rgb(0, 121,  
154) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6701, 16.0078, 32.9939 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 121, 154) }
```

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

```
.background{ background-color: rgb(0, 121,  
154) }
```

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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