

Converting Colors

XYZ(12.7911, 16.3826, 32.6250)

Have a look what the booklet for
XYZ(12.7911, 16.3826, 32.6250)
contains.

XYZ(12.8327, 16.4658, 32.6389)	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(12.8327, 16.4658,
32.6389)**

Conversions

Conversions Part 1

Format	Color
Hex	007B99
RGB	0, 123, 153
RGB Percent	0%, 48%, 60%
CMY	0.9999, 0.5176, 0.4000
CMYK	1.00, 0.20, 0.00, 0.40
HSL	192°, 100%, 30%
HSV	192°, 100%, 60%
XYZ	12.8327, 16.4658, 32.6389
YIQ	89.6430, -82.9380, -16.7460

Conversions

Conversions Part 2

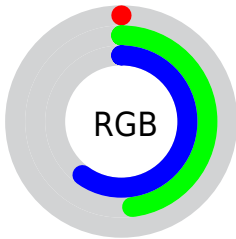
Format	Color
RYB	0, 68, 153
Decimal	31641
CIELab	47.58, -17.55, -24.23
CIELCh	48, 29.916, 234.092
Yxy	16.4658, 0.2072, 0.2658
Android (android.graphics.Color)	4278221721 (0xFF007B99)
YUV	89.6430, 31.2350, -78.6169
Hunter-Lab	40.5781, -14.5615, -19.2852

Details

The XYZ color **12.8327, 16.4658, 32.6389** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **13.6020, 7.7021, 0.7704**, and the grayscale version is **9.5858, 10.0850, 10.9825**.

A 20% lighter version of the original color is **30.6256, 37.5341, 64.6622**, and **4.8471, 5.8569, 13.4454** is the 20% darker color. If you saturate the color by 10%, you get **12.8325, 16.4652, 32.6391**, and if you desaturate by 10%, it is **13.4132, 17.3264, 32.7747**.

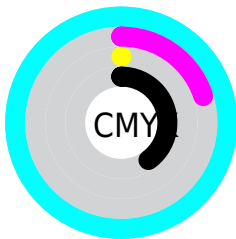
Distribution



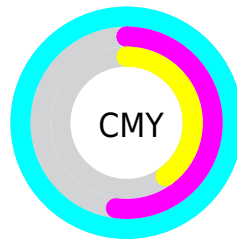
- Red (0%)
- Green (48%)
- Blue (60%)



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



- Cyan (100%)
- Magenta (20%)
- Yellow (0%)
- Black (40%)



- Cyan (100%)
- Magenta (52%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8327, 16.4658, 32.6389 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 12.8327, 16.4658, 32.6389 by changing the saturation by 10% instead.

■ 12.8327, 16.4658,
32.6389

■ 12.8327, 16.4658,
32.6389

■ 203.5020,
232.0748, 328.6014

■ 7.3896, 9.8544,
21.5811

■ 30.6068, 37.4050,
64.9209

■ 3.7554, 5.3025,
13.3541

■ 43.6685, 52.5015,
86.9821

■ 1.5647, 2.4258,
7.5392

■ 60.0005, 71.1952,
113.5482

■ 0.3693, 0.8391,
3.7180

■ 79.9681, 93.8705,
145.0378

■ 0.0000, 0.0000,
1.4720

■ 103.9367,
120.9117, 181.8694

■ 0.0000, 0.0000,
0.1969

■ 132.2717,

■ 0.0000, 0.0000,

152.7032, 224.4615

0.0000

165.3383,
189.6294, 273.2327

■ 12.8327, 16.4658,
32.6389

■ 12.8327, 16.4658,
32.6389

■ 12.8325, 16.4652,
32.6391

■ 13.4132, 17.3264,
32.7747

■ 14.1542, 18.2865,
32.9210

■ 15.1247, 19.3822,
33.0814

■ 16.3524, 20.6279,
33.2571

■ 17.8610, 22.0358,
33.4493

■ 19.6712, 23.6170,
33.6591

■ 21.8019, 25.3811,
33.8873

■ 24.2703, 27.3372,
34.1348

■ 27.0924, 29.4938,
34.4023

Harmonies

Analogous

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



11.4222, 16.4658, 24.6125



12.8327, 16.4658, 32.6389



15.1286, 16.4658, 36.8508

Triad

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



12.8327, 16.4658, 32.6389



21.3219, 16.4658, 19.4822



13.6499, 16.4658, 7.5898

Complementary

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



12.8327, 16.4658, 32.6389



13.6020, 7.7021, 0.7704

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.



16.1837, 16.4658, 6.9328



12.8327, 16.4658, 32.6389



20.8108, 16.4658, 12.5794

Square

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



12.8327, 16.4658, 32.6389



20.1794, 16.4658, 27.9885



18.8527, 16.4658, 8.4739



11.8552, 16.4658, 10.6242

Rectangle

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



12.8327, 16.4658, 32.6389



16.9316, 16.4658, 36.2659



18.8527, 16.4658, 8.4739



14.4352, 16.4658, 7.1277

Sweetspot

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



12.8333, 16.4664, 32.6393



38.7956, 45.2527, 60.6619



11.6021, 22.8671, 4.9052



8.2297, 9.7166, 13.3592



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



12.8333, 16.4664, 32.6393



22.8499, 29.2243, 58.4085



6.8262, 4.4522, 30.6370



6.2816, 6.8206, 7.9144



10.6290, 13.6547, 26.9831



0.1823, 0.2509, 0.4112

Inverse Universe

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



16.7125, 8.2030, 19.4419



29.8627, 14.6628, 34.4661



18.1438, 16.7857, 2.2843



6.4093, 6.3029, 7.5353



13.8238, 6.7838, 16.1290



0.2185, 0.1061, 0.3033

Previews

White Background



This preview shows how the XYZ color 12.8327, 16.4658, 32.6389 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 12.8327, 16.4658, 32.6389 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

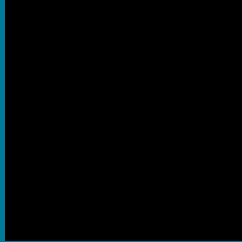
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8327, 16.4658, 32.6389

Background



This preview shows how black text looks on a background with the XYZ color 12.8327, 16.4658, 32.6389.

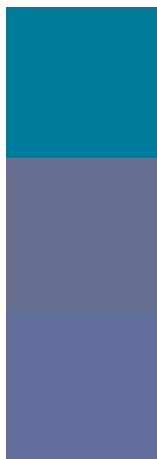


This preview shows how white text looks on a background with the XYZ color 12.8327, 16.4658,

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

12.8327, 16.4658, 32.6389

Protanopia

16.4274, 16.3256, 28.6709

Deuteranopia

16.7222, 16.3658, 33.7301



Tritanopia

11.7068, 16.4165, 25.4734

Trichromacy



Original Color

12.8327, 16.4658, 32.6389

Protanomaly

13.6440, 15.5263, 29.8815

Deuteranomaly

14.0337, 15.6522, 33.2919

Tritanomaly

12.0901, 16.3683, 28.1134

Monochromacy



Original Color

12.8327, 16.4658, 32.6389

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

9.4194, 11.5649, 17.3586

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8327, 16.4658, 32.6389 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, 123, 153)` looks like.

```
.text, #text, p{  
    color:rgb(0, 123, 153)  
}
```

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, 123, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 123, 153) }
```

Border

The CSS property to change the border of an element to XYZ 12.8327, 16.4658, 32.6389 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, 123, 153) }
```


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

```
.border{ border-color:rgb(0, 123, 153) }
```

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

Here you see how a box with a 4 pixel rgb(0, 123, 153) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 123, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 123, 153);  
box-shadow:4px 4px 4px 4px rgb(0, 123,  
153) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8327, 16.4658, 32.6389 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 123, 153) }
```

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

```
.background{ background-color: rgb(0, 123,  
153) }
```

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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