

Converting Colors

XYZ(12.4119, 15.9577, 31.4705)

Have a look what the booklet for
XYZ(12.4119, 15.9577, 31.4705)
contains.

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Color

**XYZ(12.3424, 15.8768,
31.2682)**

Conversions

Conversions Part 1

Format	Color
Hex	007996
RGB	0, 121, 150
RGB Percent	0%, 47%, 59%
CMY	0.9999, 0.5255, 0.4118
CMYK	1.00, 0.19, 0.00, 0.41
HSL	192°, 100%, 29%
HSV	192°, 100%, 59%
XYZ	12.3424, 15.8768, 31.2682
YIQ	88.1270, -81.4250, -16.6330

Conversions

Conversions Part 2

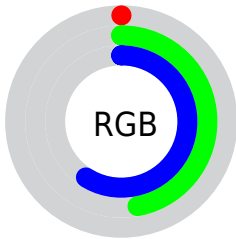
Format	Color
RYB	0, 67, 150
Decimal	31126
CIELab	46.81, -17.55, -23.65
CIELCh	47, 29.451, 233.430
Yxy	15.8768, 0.2075, 0.2669
Android (android.graphics.Color)	4278221206 (0xFF007996)
YUV	88.1270, 30.5034, -77.2874
Hunter-Lab	39.8457, -14.4387, -18.6348

Details

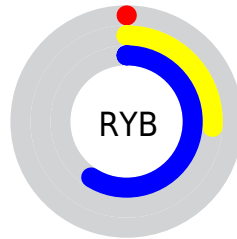
The XYZ color **12.3424, 15.8768, 31.2682** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **13.0178, 7.3639, 0.7359**, and the grayscale version is **9.2533, 9.7352, 10.6017**.

A 20% lighter version of the original color is **29.5890, 36.1781, 62.5503**, and **4.5695, 5.5356, 12.6320** is the 20% darker color. If you saturate the color by 10%, you get **12.3422, 15.8762, 31.2684**, and if you desaturate by 10%, it is **12.8978, 16.6945, 31.3971**.

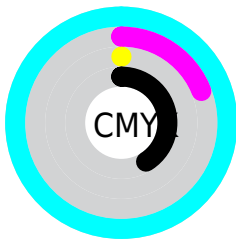
Distribution



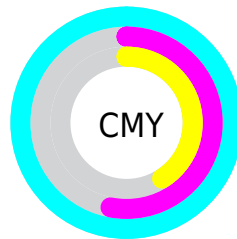
- Red (0%)
- Green (47%)
- Blue (59%)



- Red (0%)
- Yellow (26%)
- Blue (59%)



- Cyan (100%)
- Magenta (19%)
- Yellow (0%)
- Black (41%)



- Cyan (100%)
- Magenta (53%)
- Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3424, 15.8768, 31.2682 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 12.3424, 15.8768, 31.2682 by changing the saturation by 10% instead.

12.3424, 15.8768,
31.2682

12.3424, 15.8768,
31.2682

200.3830,
228.6136, 322.1614

7.0512, 9.4370,
20.5430

29.7287, 36.3842,
62.7466

3.5407, 5.0273,
12.6024

42.5544, 51.2206,
84.3369

1.4457, 2.2633,
7.0278

58.6224, 69.6246,
110.3859

0.2885, 0.7542,
3.4008

78.2980, 91.9808,
141.3122

0.0000, 0.0000,
1.3027

101.9464,
118.6733, 177.5344

0.0000, 0.0000,
0.0640

129.9332,

0.0000, 0.0000,

150.0867, 219.4710

0.0000

162.6236,
186.6054, 267.5404

■ 12.3424, 15.8768,
31.2682

■ 12.3424, 15.8768,
31.2682

■ 12.3422, 15.8762,
31.2684

■ 12.8978, 16.6945,
31.3971

■ 13.6050, 17.6061,
31.5358

■ 14.5314, 18.6467,
31.6878

■ 15.7031, 19.8299,
31.8544

■ 17.1428, 21.1675,
32.0367

■ 18.8701, 22.6698,
32.2356

■ 20.9031, 24.3461,
32.4521

■ 23.2581, 26.2051,
32.6868

■ 25.9503, 28.2547,
32.9405

Harmonies

Analogous

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



11.0079, 15.8768, 23.5234



12.3424, 15.8768, 31.2682



14.5340, 15.8768, 35.4242

Triad

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



12.3424, 15.8768, 31.2682



20.5304, 15.8768, 18.9515



13.2157, 15.8768, 7.3069

Complementary

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



12.3424, 15.8768, 31.2682



13.0178, 7.3639, 0.7359

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.



15.6609, 15.8768, 6.7205



12.3424, 15.8768, 31.2682



20.0749, 15.8768, 12.2637

Square

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



12.3424, 15.8768, 31.2682



19.4011, 15.8768, 27.1252



18.2188, 15.8768, 8.2539



11.4708, 15.8768, 10.1721

Rectangle

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



12.3424, 15.8768, 31.2682



16.2633, 15.8768, 34.9535



18.2188, 15.8768, 8.2539



13.9753, 15.8768, 6.8778

Sweetspot

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



12.3429, 15.8774, 31.2686



36.6559, 42.7770, 57.2461



11.1106, 21.8946, 4.7091



7.8099, 9.2244, 12.6537



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.



12.3429, 15.8774, 31.2686



21.6588, 27.7733, 55.1405



6.5426, 4.2766, 29.3351



5.8698, 6.3736, 7.3906



10.2584, 13.2116, 25.9405



0.1452, 0.2010, 0.3240

Inverse Universe

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



16.0294, 7.8651, 18.7630



28.2254, 13.8543, 32.7849



17.3793, 16.0869, 2.1897



5.9877, 5.8902, 7.0416



13.3051, 6.5271, 15.6193



0.1728, 0.0839, 0.2433

Previews

White Background



This preview shows how the XYZ color 12.3424, 15.8768, 31.2682 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 12.3424, 15.8768, 31.2682 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

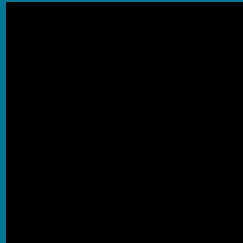
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.3424, 15.8768, 31.2682

Background



This preview shows how black text looks on a background with the XYZ color 12.3424, 15.8768, 31.2682.

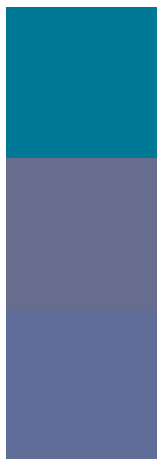


This preview shows how white text looks on a background with the XYZ color 12.3424, 15.8768,

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

12.3424, 15.8768, 31.2682

Protanopia

15.7558, 15.6851, 27.3964

Deuteranopia

16.1482, 15.7786, 32.3315



Tritanopia

11.3166, 15.8594, 24.6550

Trichromacy



Original Color

12.3424, 15.8768, 31.2682

Protanomaly

13.1191, 14.9477, 28.5793

Deuteranomaly

13.5592, 15.1014, 31.9060

Tritanomaly

11.6197, 15.7831, 26.8601

Monochromacy



Original Color

12.3424, 15.8768, 31.2682

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

9.0573, 11.1028, 16.7046

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3424, 15.8768, 31.2682 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, 150)` looks like.

```
.text, #text, p{  
    color:rgb(0, 121, 150)  
}
```

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, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 121, 150) }
```

Border

The CSS property to change the border of an element to XYZ 12.3424, 15.8768, 31.2682 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, 150) }
```


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

```
.border{ border-color:rgb(0, 121, 150) }
```

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, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 121, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 121, 150);  
box-shadow:4px 4px 4px 4px rgb(0, 121,  
150) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3424, 15.8768, 31.2682 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, 150) }
```

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

```
.background{ background-color: rgb(0, 121,  
150) }
```

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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