

Converting Colors

XYZ(12.4321, 16.3244, 30.4712)

Have a look what the booklet for
XYZ(12.4321, 16.3244, 30.4712)
contains.

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Color

**XYZ(12.4283, 16.3040,
30.5089)**

Conversions

Conversions Part 1

Format	Color
Hex	007B94
RGB	0, 123, 148
RGB Percent	0%, 48%, 58%
CMY	0.9999, 0.5176, 0.4196
CMYK	1.00, 0.17, 0.00, 0.42
HSL	190°, 100%, 29%
HSV	190°, 100%, 58%
XYZ	12.4283, 16.3040, 30.5089
YIQ	89.0730, -81.3330, -18.3010

Conversions

Conversions Part 2

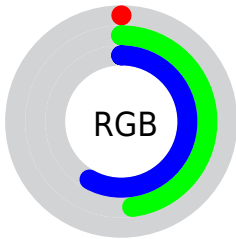
Format	Color
RYB	0, 67, 148
Decimal	31636
CIELab	47.37, -19.37, -21.61
CIELCh	47, 29.022, 228.136
Yxy	16.3040, 0.2098, 0.2752
Android (android.graphics.Color)	4278221716 (0xFF007B94)
YUV	89.0730, 29.0510, -78.1170
Hunter-Lab	40.3782, -15.7201, -16.5335

Details

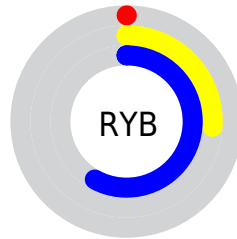
The XYZ color **12.4283, 16.3040, 30.5089** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **12.5613, 6.9925, 0.6885**, and the grayscale version is **9.4644, 9.9573, 10.8435**.

A 20% lighter version of the original color is **29.9323, 37.2462, 61.4888**, and **4.6064, 5.7606, 12.1784** is the 20% darker color. If you saturate the color by 10%, you get **12.4279, 16.3031, 30.5091**, and if you desaturate by 10%, it is **12.9369, 17.0329, 30.6231**.

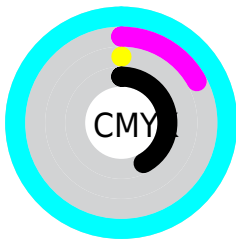
Distribution



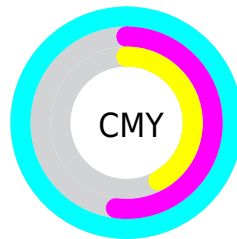
- Red (0%)
- Green (48%)
- Blue (58%)



- Red (0%)
- Yellow (26%)
- Blue (58%)



- Cyan (100%)
- Magenta (17%)
- Yellow (0%)
- Black (42%)



- Cyan (100%)
- Magenta (52%)
- Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4283, 16.3040, 30.5089 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 12.4283, 16.3040, 30.5089 by changing the saturation by 10% instead.

■ 12.4283, 16.3040,
30.5089

■ 12.4283, 16.3040,
30.5089

200.9330,
231.1289, 318.5502

■ 7.1103, 9.7395,
19.9699

■ 29.8829, 37.1252,
61.5365

■ 3.5781, 5.2266,
12.1893

■ 42.7503, 52.1506,
82.8622

■ 1.4664, 2.3808,
6.7486

■ 58.8649, 70.7652,
108.6205

■ 0.3028, 0.8160,
3.2293

■ 78.5920, 93.3534,
139.2300

■ 0.0000, 0.0000,
1.2129

■ 102.2970,
120.2994, 175.1091

■ 0.0000, 0.0000,
0.0000

■ 130.3453,

151.9877, 216.6765

163.1022,
188.8028, 264.3507

■ 12.4283, 16.3040,
30.5089

■ 12.4283, 16.3040,
30.5089

■ 12.4279, 16.3031,
30.5091

■ 12.9369, 17.0329,
30.6231

■ 13.5895, 17.8475,
30.7460

■ 14.4523, 18.7825,
30.8809

■ 15.5506, 19.8509,
31.0293

■ 16.9061, 21.0640,
31.1920

■ 18.5379, 22.4317,
31.3700

■ 20.4634, 23.9630,
31.5641

■ 22.6983, 25.6663,
31.7750

■ 25.2574, 27.5490,
32.0036

Harmonies

Analogous

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



11.2604, 16.3040, 22.5298



12.4283, 16.3040, 30.5089



14.5030, 16.3040, 35.5068

Triad

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



12.4283, 16.3040, 30.5089



20.8504, 16.3040, 20.8222



14.0092, 16.3040, 7.4168

Complementary

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



12.4283, 16.3040, 30.5089



12.5613, 6.9925, 0.6885

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.



16.5343, 16.3040, 7.1952



12.4283, 16.3040, 30.5089



20.6804, 16.3040, 13.7029

Square

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



12.4283, 16.3040, 30.5089



19.4738, 16.3040, 28.9652



19.0321, 16.3040, 9.1638



12.1013, 16.3040, 9.8863

Rectangle

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



12.4283, 16.3040, 30.5089



16.2061, 16.3040, 35.7610



19.0321, 16.3040, 9.1638



14.8078, 16.3040, 7.1080

Sweetspot

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



12.4288, 16.3046, 30.5093



35.8804, 42.1052, 55.6706



10.7625, 21.2491, 4.4366



7.8823, 9.3691, 12.6778



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.



12.4288, 16.3046, 30.5093



21.8191, 28.5478, 53.7949



6.4589, 4.3646, 28.5193



5.8816, 6.3972, 7.3945



10.6323, 13.9595, 26.0651



0.1479, 0.2064, 0.3249

Inverse Universe

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



15.7884, 7.7267, 19.3986



27.8015, 13.6099, 33.9347



16.6443, 15.1586, 2.0495



5.9937, 5.8925, 7.0729



13.4938, 6.6026, 16.6132



0.1741, 0.0844, 0.2505

Previews

White Background



This preview shows how the XYZ color 12.4283, 16.3040, 30.5089 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 12.4283, 16.3040, 30.5089 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

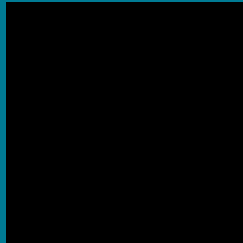
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.4283, 16.3040, 30.5089

Background



This preview shows how black text looks on a background with the XYZ color 12.4283, 16.3040, 30.5089.

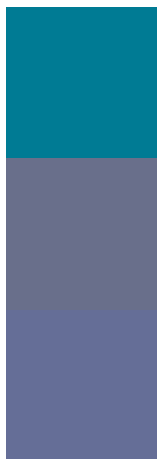


This preview shows how white text looks on a background with the XYZ color 12.4283, 16.3040,

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

12.4283, 16.3040, 30.5089

Protanopia

16.1703, 16.2362, 26.7077

Deuteranopia

16.5287, 16.1529, 31.5248



Tritanopia

11.6367, 16.3885, 25.1042

Trichromacy



Original Color

12.4283, 16.3040, 30.5089

Protanomaly

13.3280, 15.4078, 27.8627

Deuteranomaly

13.7501, 15.5535, 31.1316

Tritanomaly

11.8679, 16.2794, 26.9428

Monochromacy



Original Color

12.4283, 16.3040, 30.5089

Achromatopsia

9.4954, 9.9899, 10.8790

Achromatomaly

9.1555, 11.3030, 16.4510

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4283, 16.3040, 30.5089 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, 148)` looks like.

```
.text, #text, p{  
    color:rgb(0, 123, 148)  
}
```

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, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 123, 148) }
```

Border

The CSS property to change the border of an element to XYZ 12.4283, 16.3040, 30.5089 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, 148) }
```


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

```
.border{ border-color:rgb(0, 123, 148) }
```

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, 148)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 123, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 123, 148);  
box-shadow:4px 4px 4px 4px rgb(0, 123,  
148) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4283, 16.3040, 30.5089 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, 148) }
```

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

```
.background{ background-color: rgb(0, 123,  
148) }
```

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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