

Converting Colors

XYZ(12.2969, 16.1324, 30.1841)

Have a look what the booklet for
XYZ(12.2969, 16.1324, 30.1841)
contains.

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Color

**XYZ(12.2260, 16.0257,
30.0526)**

Conversions

Conversions Part 1

Format	Color
Hex	007A93
RGB	0, 122, 147
RGB Percent	0%, 48%, 58%
CMY	0.9999, 0.5216, 0.4235
CMYK	1.00, 0.17, 0.00, 0.42
HSL	190°, 100%, 29%
HSV	190°, 100%, 58%
XYZ	12.2260, 16.0257, 30.0526
YIQ	88.3720, -80.7370, -18.0890

Conversions

Conversions Part 2

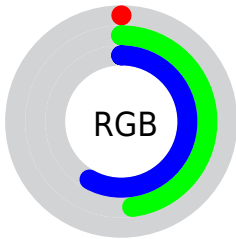
Format	Color
RYB	0, 67, 147
Decimal	31379
CIELab	47.01, -19.19, -21.58
CIELCh	47, 28.880, 228.360
Yxy	16.0257, 0.2097, 0.2749
Android (android.graphics.Color)	4278221459 (0xFF007A93)
YUV	88.3720, 28.9036, -77.5022
Hunter-Lab	40.0321, -15.5414, -16.4873

Details

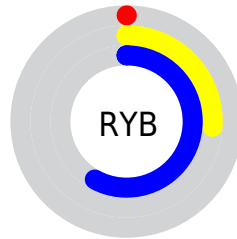
The XYZ color **12.2260, 16.0257, 30.0526** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **12.3809, 6.8993, 0.6798**, and the grayscale version is **9.3101, 9.7949, 10.6667**.

A 20% lighter version of the original color is **29.6189, 36.8083, 60.8020**, and **4.4939, 5.6096, 11.9122** is the 20% darker color. If you saturate the color by 10%, you get **12.2258, 16.0252, 30.0528**, and if you desaturate by 10%, it is **12.7297, 16.7473, 30.1657**.

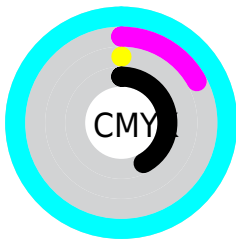
Distribution



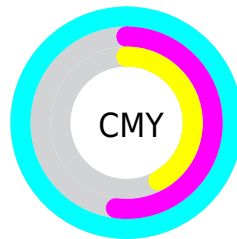
- Red (0%)
- Green (48%)
- Blue (58%)



- 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 12.2260, 16.0257, 30.0526 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 12.2260, 16.0257, 30.0526 by changing the saturation by 10% instead.

12.2260, 16.0257,
30.0526

12.2260, 16.0257,
30.0526

199.6353,
229.4933, 316.3645

6.9711, 9.5423,
19.6261

29.5194, 36.6428,
60.8073

3.4902, 5.0966,
11.9422

42.2885, 51.5454,
81.9727

1.4180, 2.3040,
6.5823

58.2931, 70.0231,
107.5547

0.2690, 0.7758,
3.1278

77.8985, 92.4604,
137.9720

0.0000, 0.0000,
1.1603

101.4701,
119.2417, 173.6431

0.0000, 0.0000,
0.0000

129.3731,

150.7513, 214.9865

161.9731,
187.3737, 262.4208

■ 12.2260, 16.0257,
30.0526

■ 12.2260, 16.0257,
30.0526

■ 12.2258, 16.0252,
30.0528

■ 12.7297, 16.7473,
30.1657

■ 13.3749, 17.5533,
30.2872

■ 14.2271, 18.4780,
30.4208

■ 15.3112, 19.5343,
30.5675

■ 16.6486, 20.7331,
30.7284

■ 18.2581, 22.0844,
30.9044

■ 20.1567, 23.5969,
31.0963

■ 22.3600, 25.2788,
31.3048

■ 24.8824, 27.1377,
31.5307

Harmonies

Analogous

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



11.0699, 16.0257, 22.2100



12.2260, 16.0257, 30.0526



14.2724, 16.0257, 34.9366

Triad

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



12.2260, 16.0257, 30.0526



20.5041, 16.0257, 20.4104



13.7521, 16.0257, 7.2935

Complementary

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



12.2260, 16.0257, 30.0526



12.3809, 6.8993, 0.6798

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.



16.2335, 16.0257, 7.0600



12.2260, 16.0257, 30.0526



20.3249, 16.0257, 13.4226

Square

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



12.2260, 16.0257, 30.0526



19.1596, 16.0257, 28.4256



18.6942, 16.0257, 8.9785



11.8814, 16.0257, 9.7397

Rectangle

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



12.2260, 16.0257, 30.0526



15.9494, 16.0257, 35.1568



18.6942, 16.0257, 8.9785



14.5363, 16.0257, 6.9846

Sweetspot

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



12.2265, 16.0263, 30.0530



35.8671, 42.0786, 55.6662



10.6044, 20.9359, 4.3748



7.8789, 9.3623, 12.6767



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.



12.2265, 16.0263, 30.0530



21.7818, 28.4732, 53.7824



6.3657, 4.3046, 28.0994



5.8811, 6.3961, 7.3943



10.6146, 13.9241, 26.0592



0.1478, 0.2061, 0.3249

Inverse Universe

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



15.5459, 7.6087, 19.0622



27.7827, 13.6024, 33.8355



16.4012, 14.9399, 2.0199



5.9934, 5.8924, 7.0714



13.4849, 6.5990, 16.5661



0.1741, 0.0844, 0.2502

Previews

White Background



This preview shows how the XYZ color 12.2260, 16.0257, 30.0526 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 12.2260, 16.0257, 30.0526 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

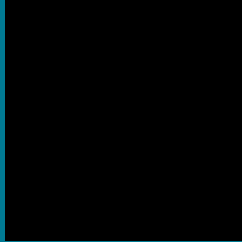
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2260, 16.0257, 30.0526

Background



This preview shows how black text looks on a background with the XYZ color 12.2260, 16.0257, 30.0526.

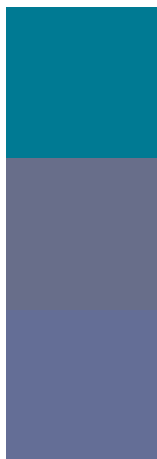


This preview shows how white text looks on a background with the XYZ color 12.2260, 16.0257,

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

12.2260, 16.0257, 30.0526

Protanopia

15.8723, 15.9299, 26.2830

Deuteranopia

16.3365, 16.0632, 31.0936



Tritanopia

11.4413, 16.1088, 24.6966

Trichromacy



Original Color

12.2260, 16.0257, 30.0526

Protanomaly

13.0718, 15.1160, 27.4280

Deuteranomaly

13.5565, 15.2945, 30.6714

Tritanomaly

11.6704, 16.0009, 26.5181

Monochromacy



Original Color

12.2260, 16.0257, 30.0526

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

8.9484, 11.0592, 16.1310

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2260, 16.0257, 30.0526 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, 122, 147)` looks like.

```
.text, #text, p{  
    color:rgb(0, 122, 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(0, 122, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 122, 147) }
```

Border

The CSS property to change the border of an element to XYZ 12.2260, 16.0257, 30.0526 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, 122, 147) }
```


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

```
.border{ border-color:rgb(0, 122, 147) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 122, 147)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 122, 147); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 122, 147);  
box-shadow:4px 4px 4px 4px rgb(0, 122,  
147) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2260, 16.0257, 30.0526 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 122, 147) }
```

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

```
.background{ background-color: rgb(0, 122,  
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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