

Converting Colors

XYZ(12.2518, 15.3039, 32.4452)

Have a look what the booklet for
XYZ(12.2518, 15.3039, 32.4452)
contains.

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Color

**XYZ(12.2282, 15.2568,
32.4373)**

Conversions

Conversions Part 1

Format	Color
Hex	007699
RGB	0, 118, 153
RGB Percent	0%, 46%, 60%
CMY	0.9999, 0.5372, 0.4000
CMYK	1.00, 0.23, 0.00, 0.40
HSL	194°, 100%, 30%
HSV	194°, 100%, 60%
XYZ	12.2282, 15.2568, 32.4373
YIQ	86.7080, -81.5630, -14.1310

Conversions

Conversions Part 2

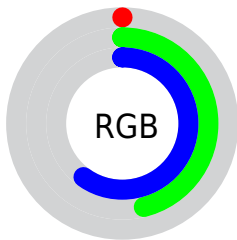
Format	Color
RYB	0, 67, 153
Decimal	30361
CIELab	45.98, -14.76, -26.71
CIELCh	46, 30.513, 241.072
Yxy	15.2568, 0.2041, 0.2546
Android (android.graphics.Color)	4278220441 (0xFF007699)
YUV	86.7080, 32.6820, -76.0429
Hunter-Lab	39.0600, -12.4733, -21.8954

Details

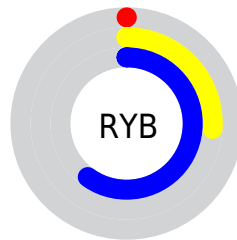
The XYZ color **12.2282, 15.2568, 32.4373** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **13.7388, 7.9758, 0.8160**, and the grayscale version is **8.9428, 9.4085, 10.2459**.

A 20% lighter version of the original color is **29.4750, 35.2329, 64.2786**, and **4.5884, 5.3396, 13.3592** is the 20% darker color. If you saturate the color by 10%, you get **12.2278, 15.2559, 32.4375**, and if you desaturate by 10%, it is **12.8507, 16.2013, 32.5871**.

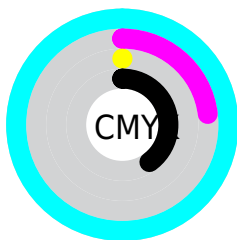
Distribution



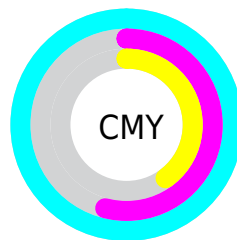
- Red (0%)
- Green (46%)
- Blue (60%)



- Red (0%)
- Yellow (26%)
- Blue (60%)



- Cyan (100%)
- Magenta (23%)
- Yellow (0%)
- Black (40%)



- Cyan (100%)
- Magenta (54%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2282, 15.2568, 32.4373 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 12.2282, 15.2568, 32.4373 by changing the saturation by 10% instead.

12.2282, 15.2568,
32.4373

12.2282, 15.2568,
32.4373

199.6494,
224.9153, 327.6604

6.9726, 8.9998,
21.4282

29.5233, 35.3031,
64.6019

3.4911, 4.7411,
13.2430

42.2935, 49.8611,
86.5944

1.4185, 2.0961,
7.4634

58.2993, 67.9550,
113.0851

0.2693, 0.6625,
3.6708

77.9061, 89.9691,
144.4925

0.0000, 0.0000,
1.4465

101.4791,
116.2877, 181.2352

0.0000, 0.0000,
0.1776

129.3837,

0.0000, 0.0000,

147.2954, 223.7317

0.0000

161.9854,
183.3765, 272.4006

■ 12.2282, 15.2568,
32.4373

■ 12.2282, 15.2568,
32.4373

■ 12.2278, 15.2559,
32.4375

■ 12.8507, 16.2013,
32.5871

■ 13.6376, 17.2533,
32.7487

■ 14.6580, 18.4489,
32.9257

■ 15.9398, 19.8026,
33.1194

■ 17.5065, 21.3268,
33.3310

■ 19.3791, 23.0326,
33.5616

■ 21.5764, 24.9299,
33.8120

■ 24.1157, 27.0279,
34.0831

■ 27.0131, 29.3349,
34.3757

Harmonies

Analogous

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



10.6483, 15.2568, 25.0914



12.2282, 15.2568, 32.4373



14.5943, 15.2568, 35.2865

Triad

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



12.2282, 15.2568, 32.4373



20.0575, 15.2568, 16.3472



12.0850, 15.2568, 7.1621

Complementary

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



12.2282, 15.2568, 32.4373



13.7388, 7.9758, 0.8160

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.



14.4083, 15.2568, 6.0602



12.2282, 15.2568, 32.4373



19.1865, 15.2568, 10.2971

Square

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



12.2282, 15.2568, 32.4373



19.2988, 15.2568, 24.4891



17.0396, 15.2568, 7.0111



10.5728, 15.2568, 10.6361

Rectangle

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



12.2282, 15.2568, 32.4373



16.3619, 15.2568, 33.7414



17.0396, 15.2568, 7.0111



12.7871, 15.2568, 6.5578

Sweetspot

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



12.2287, 15.2573, 32.4377



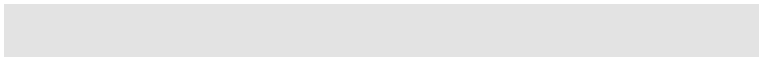
38.3841, 44.4296, 60.5247



11.6685, 22.8936, 5.2552



8.1285, 9.5142, 13.3255



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.



12.2287, 15.2573, 32.4377



21.7531, 27.0307, 58.0429



6.6274, 4.0546, 30.5706



6.2647, 6.7868, 7.9088



10.1318, 12.6603, 26.8174



0.1778, 0.2419, 0.4097

Inverse Universe

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



16.4073, 8.0809, 17.8350



29.3091, 14.4414, 31.5508



18.6761, 17.8504, 2.4618



6.4007, 6.2995, 7.4904



13.5728, 6.6834, 14.8075



0.2162, 0.1052, 0.2913

Previews

White Background



This preview shows how the XYZ color 12.2282, 15.2568, 32.4373 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 12.2282, 15.2568, 32.4373 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

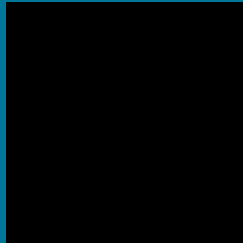
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2282, 15.2568, 32.4373

Background



This preview shows how black text looks on a background with the XYZ color 12.2282, 15.2568, 32.4373.

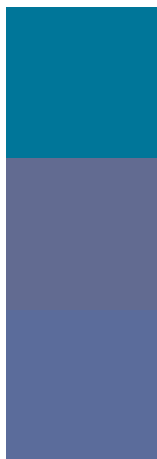


This preview shows how white text looks on a background with the XYZ color 12.2282, 15.2568,

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

12.2282, 15.2568, 32.4373

Protanopia

15.4055, 15.1564, 28.9016

Deuteranopia

15.5933, 15.3158, 33.1447



Tritanopia

10.8666, 15.2865, 23.4969

Trichromacy



Original Color

12.2282, 15.2568, 32.4373

Protanomaly

13.0163, 14.5311, 30.1357

Deuteranomaly

13.3718, 14.8210, 32.7278

Tritanomaly

11.3039, 15.2679, 26.3960

Monochromacy



Original Color

12.2282, 15.2568, 32.4373

Achromatopsia

9.0590, 9.5307, 10.3790

Achromatomaly

8.8125, 10.6953, 16.6389

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2282, 15.2568, 32.4373 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, 118, 153)` looks like.

```
.text, #text, p{  
    color:rgb(0, 118, 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, 118, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 118, 153) }
```

Border

The CSS property to change the border of an element to XYZ 12.2282, 15.2568, 32.4373 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, 118, 153) }
```


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

```
.border{ border-color:rgb(0, 118, 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, 118, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 118, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 118, 153);  
box-shadow:4px 4px 4px 4px rgb(0, 118,  
153) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2282, 15.2568, 32.4373 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 118, 153) }
```

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

```
.background{ background-color: rgb(0, 118,  
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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