

Converting Colors

XYZ(12.9962, 15.3863, 37.0292)

Have a look what the booklet for
XYZ(12.9962, 15.3863, 37.0292)
contains.

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Color

**XYZ(12.9721, 15.3669,
36.9327)**

Conversions

Conversions Part 1

Format	Color
Hex	0075A3
RGB	0, 117, 163
RGB Percent	0%, 46%, 64%
CMY	0.9999, 0.5412, 0.3608
CMYK	1.00, 0.28, 0.00, 0.36
HSL	197°, 100%, 32%
HSV	197°, 100%, 64%
XYZ	12.9721, 15.3669, 36.9327
YIQ	87.2610, -84.4980, -10.4980

Conversions

Conversions Part 2

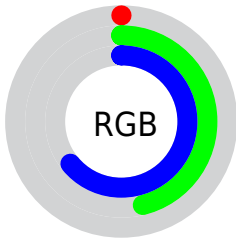
Format	Color
RYB	0, 68, 163
Decimal	30115
CIELab	46.13, -10.38, -32.36
CIELCh	46, 33.980, 252.209
Yxy	15.3669, 0.1987, 0.2354
Android (android.graphics.Color)	4278220195 (0xFF0075A3)
YUV	87.2610, 37.3393, -76.5279
Hunter-Lab	39.2006, -9.5327, -28.4194

Details

The XYZ color **12.9721, 15.3669, 36.9327** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **16.0824, 9.7425, 1.0336**, and the grayscale version is **9.0521, 9.5235, 10.3711**.

A 20% lighter version of the original color is **30.8674, 35.5126, 71.5574**, and **4.9974, 5.4039, 15.8186** is the 20% darker color. If you saturate the color by 10%, you get **12.9716, 15.3656, 36.9328**, and if you desaturate by 10%, it is **13.7409, 16.5789, 37.1264**.

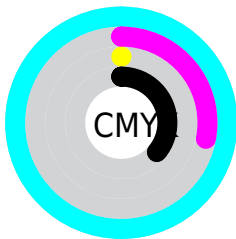
Distribution



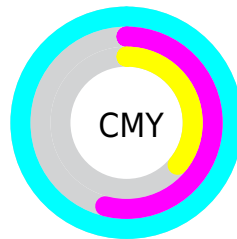
- Red (0%)
- Green (46%)
- Blue (64%)



- Red (0%)
- Yellow (27%)
- Blue (64%)



- Cyan (100%)
- Magenta (28%)
- Yellow (0%)
- Black (36%)



- Cyan (100%)
- Magenta (54%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9721, 15.3669, 36.9327 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 12.9721, 15.3669, 36.9327 by changing the saturation by 10% instead.

■ 12.9721, 15.3669,
36.9327

■ 12.9721, 15.3669,
36.9327

204.3800,
225.5764, 348.1790

■ 7.4862, 9.0773,
24.8600

■ 30.8554, 35.4956,
71.6544

■ 3.8170, 4.7916,
15.7547

■ 43.9835, 50.1034,
95.1406

■ 1.5991, 2.1255,
9.1983

■ 60.3897, 68.2528,
123.2682

■ 0.3918, 0.6789,
4.7722

■ 80.4394, 90.3280,
156.4560

■ 0.0000, 0.0000,
2.0578

■ 104.4979,
116.7137, 195.1225

■ 0.0000, 0.0000,
0.5905

■ 132.9306,

■ 0.0000, 0.0000,

147.7940, 239.6861

0.0000

166.1029,
183.9534, 290.5654

■ 12.9721, 15.3669,
36.9327

■ 12.9721, 15.3669,
36.9327

■ 12.9716, 15.3656,
36.9328

■ 13.7409, 16.5789,
37.1264

■ 14.7129, 17.9351,
37.3370

■ 15.9638, 19.4752,
37.5683

■ 17.5262, 21.2167,
37.8221

■ 19.4281, 23.1744,
38.0998

■ 21.6942, 25.3616,
38.4025

■ 24.3466, 27.7902,
38.7315

■ 27.4058, 30.4712,
39.0877

■ 30.8907, 33.4148,
39.4722

Harmonies

Analogous

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



10.8627, 15.3669, 29.8707



12.9721, 15.3669, 36.9327



15.8134, 15.3669, 37.6172

Triad

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



12.9721, 15.3669, 36.9327



20.7413, 15.3669, 13.5855



11.1800, 15.3669, 7.4923

Complementary

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



12.9721, 15.3669, 36.9327



16.0824, 9.7425, 1.0336

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.



13.4613, 15.3669, 5.4960



12.9721, 15.3669, 36.9327



19.1228, 15.3669, 8.1525

Square

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



12.9721, 15.3669, 36.9327



20.5648, 15.3669, 22.0836



16.3712, 15.3669, 5.6892



9.9259, 15.3669, 12.3233

Rectangle

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



12.9721, 15.3669, 36.9327



17.7740, 15.3669, 34.1429



16.3712, 15.3669, 5.6892



11.8384, 15.3669, 6.5523

Sweetspot

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



12.9727, 15.3674, 36.9331



43.3118, 49.5091, 69.3296



13.5426, 26.3728, 6.7091



9.2839, 10.7178, 15.5169



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

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



12.9727, 15.3674, 36.9331



23.0536, 27.1640, 66.0842



7.3060, 4.0341, 35.0442



7.1064, 7.6717, 9.0093



10.1210, 12.0215, 28.7167



0.2495, 0.3262, 0.6157

Inverse Universe

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



18.3156, 9.0715, 17.6157



32.7109, 16.2092, 31.0729



22.4347, 22.4470, 3.1510



7.2787, 7.1679, 8.4538



14.2541, 7.0577, 13.7946



0.3181, 0.1557, 0.3877

Previews

White Background



This preview shows how the XYZ color 12.9721, 15.3669, 36.9327 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 12.9721, 15.3669, 36.9327 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

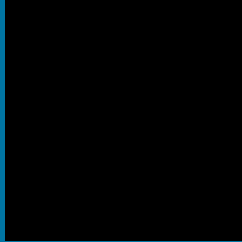
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9721, 15.3669, 36.9327

Background



This preview shows how black text looks on a background with the XYZ color 12.9721, 15.3669, 36.9327.

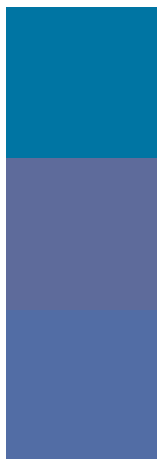


This preview shows how white text looks on a background with the XYZ color 12.9721, 15.3669,

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

12.9721, 15.3669, 36.9327

Protanopia

15.7902, 15.2616, 33.1239

Deuteranopia

15.7398, 15.4477, 37.7494



Tritanopia

10.8666, 15.2865, 23.4969

Trichromacy



Original Color

12.9721, 15.3669, 36.9327

Protanomaly

13.7195, 14.7982, 34.4810

Deuteranomaly

13.9112, 14.9987, 37.2838

Tritanomaly

11.5990, 15.3859, 27.9496

Monochromacy



Original Color

12.9721, 15.3669, 36.9327

Achromatopsia

9.0590, 9.5307, 10.3790

Achromatomaly

9.0377, 10.7854, 17.8251

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9721, 15.3669, 36.9327 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, 117, 163)` looks like.

```
.text, #text, p{  
    color:rgb(0, 117, 163)  
}
```

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, 117, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 117, 163) }
```

Border

The CSS property to change the border of an element to XYZ 12.9721, 15.3669, 36.9327 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, 117, 163) }
```


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

```
.border{ border-color:rgb(0, 117, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 117, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 117, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 117, 163);  
box-shadow:4px 4px 4px 4px rgb(0, 117,  
163) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9721, 15.3669, 36.9327 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 117, 163) }
```

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

```
.background{ background-color: rgb(0, 117,  
163) }
```

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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