

Converting Colors

XYZ(13.9725, 16.3358, 40.4474)

Have a look what the booklet for
XYZ(13.9725, 16.3358, 40.4474)
contains.

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Color

**XYZ(13.9722, 16.3352,
40.4468)**

Conversions

Conversions Part 1

Format	Color
Hex	0078AA
RGB	0, 120, 170
RGB Percent	0%, 47%, 67%
CMY	0.9999, 0.5294, 0.3333
CMYK	1.00, 0.29, 0.00, 0.33
HSL	198°, 100%, 33%
HSV	198°, 100%, 67%
XYZ	13.9722, 16.3352, 40.4468
YIQ	89.8200, -87.5700, -9.8900

Conversions

Conversions Part 2

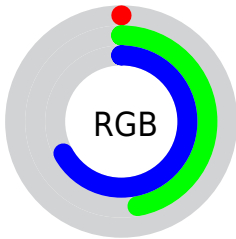
Format	Color
RYB	0, 70, 170
Decimal	30890
CIELab	47.41, -9.44, -34.44
CIElCh	47, 35.712, 254.671
Yxy	16.3352, 0.1975, 0.2309
Android (android.graphics.Color)	4278220970 (0xFF0078AA)
YUV	89.8200, 39.5287, -78.7721
Hunter-Lab	40.4168, -9.0215, -31.0422

Details

The XYZ color **13.9722, 16.3352, 40.4468** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **17.7200, 10.8304, 1.1575**, and the grayscale version is **9.6089, 10.1093, 11.0090**.

A 20% lighter version of the original color is **32.6964, 37.1697, 77.4027**, and **5.5283, 5.9191, 17.6807** is the 20% darker color. If you saturate the color by 10%, you get **13.9711, 16.3330, 40.4468**, and if you desaturate by 10%, it is **14.8214, 17.6896, 40.6638**.

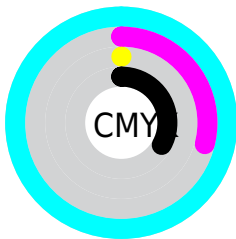
Distribution



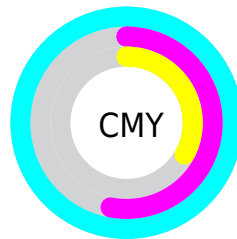
- Red (0%)
- Green (47%)
- Blue (67%)



- Red (0%)
- Yellow (27%)
- Blue (67%)



- Cyan (100%)
- Magenta (29%)
- Yellow (0%)
- Black (33%)



- Cyan (100%)
- Magenta (53%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.9722, 16.3352, 40.4468 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 13.9722, 16.3352, 40.4468 by changing the saturation by 10% instead.

■ 13.9722, 16.3352,
40.4468

■ 13.9722, 16.3352,
40.4468

■ 210.5719,
231.3116, 363.6111

■ 8.1829, 9.7617,
27.5706

■ 32.6264, 37.1792,
77.0879

■ 4.2650, 5.2412,
17.7660

■ 46.2220, 52.2184,
101.6900

■ 1.8531, 2.3895,
10.6144

■ 63.1504, 70.8482,
131.0377

■ 0.5494, 0.8205,
5.6973

■ 83.7769, 93.4532,
165.5497

■ 0.0000, 0.0000,
2.5961

■ 108.4670,
120.4176, 205.6445

■ 0.0000, 0.0000,
0.8905

■ 137.5859,

■ 0.0000, 0.0000,

152.1259, 251.7407

0.0000

171.4991,
188.9624, 304.2567

■ 13.9722, 16.3352,
40.4468

■ 13.9722, 16.3352,
40.4468

■ 13.9711, 16.3330,
40.4468

■ 14.8214, 17.6896,
40.6638

■ 15.8997, 19.2091,
40.9003

■ 17.2873, 20.9361,
41.1605

■ 19.0210, 22.8902,
41.4463

■ 21.1316, 25.0879,
41.7592

■ 23.6468, 27.5441,
42.1008

■ 26.5911, 30.2721,
42.4722

■ 29.9873, 33.2843,
42.8746

■ 33.8563, 36.5920,
43.3091

Harmonies

Analogous

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



11.5879, 16.3352, 33.0689



13.9722, 16.3352, 40.4468



17.1190, 16.3352, 40.5364

Triad

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



13.9722, 16.3352, 40.4468



22.1890, 16.3352, 13.7271



11.6286, 16.3352, 8.0477

Complementary

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



13.9722, 16.3352, 40.4468



17.7200, 10.8304, 1.1575

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.



14.0352, 16.3352, 5.6920



13.9722, 16.3352, 40.4468



20.2687, 16.3352, 8.1314

Square

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



13.9722, 16.3352, 40.4468



22.1661, 16.3352, 22.8032



17.1912, 16.3352, 5.7163



10.3653, 16.3352, 13.5651

Rectangle

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



13.9722, 16.3352, 40.4468



19.2518, 16.3352, 36.3163



17.1912, 16.3352, 5.7163



12.3151, 16.3352, 6.9578

Sweetspot

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



13.9728, 16.3357, 40.4472



47.9232, 54.6321, 77.0211



14.9128, 28.9649, 7.6219



10.1817, 11.7201, 17.1133



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



13.9728, 16.3357, 40.4472



25.1520, 29.2404, 73.3202



7.9135, 4.2170, 38.4274



7.5584, 8.1537, 9.5938



10.3272, 12.1146, 29.7695



0.2923, 0.3769, 0.7380

Inverse Universe

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



19.9683, 9.9030, 18.6287



36.1289, 17.9262, 33.2698



24.9894, 25.3692, 3.5807



7.7464, 7.6284, 8.9820



14.7133, 7.2940, 13.8336



0.3787, 0.1858, 0.4457

Previews

White Background



This preview shows how the XYZ color 13.9722, 16.3352, 40.4468 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 13.9722, 16.3352, 40.4468 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

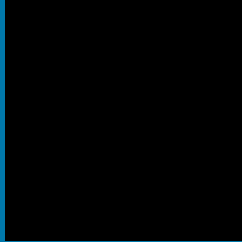
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.9722, 16.3352, 40.4468

Background



This preview shows how black text looks on a background with the XYZ color 13.9722, 16.3352, 40.4468.

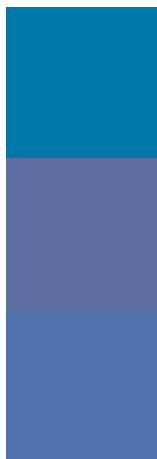


This preview shows how white text looks on a background with the XYZ color 13.9722, 16.3352,

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

13.9722, 16.3352, 40.4468

Protanopia

16.8168, 16.1934, 36.4217

Deuteranopia

16.7202, 16.3607, 41.3064



Tritanopia

11.6367, 16.3885, 25.1042

Trichromacy



Original Color

13.9722, 16.3352, 40.4468

Protanomaly

14.6723, 15.7119, 37.8567

Deuteranomaly

14.8976, 15.9318, 40.8180

Tritanomaly

12.3494, 16.2725, 30.0938

Monochromacy



Original Color

13.9722, 16.3352, 40.4468

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

9.6708, 11.5091, 19.1645

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.9722, 16.3352, 40.4468 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, 120, 170)` looks like.

```
.text, #text, p{  
    color:rgb(0, 120, 170)  
}
```

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, 120, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 120, 170) }
```

Border

The CSS property to change the border of an element to XYZ 13.9722, 16.3352, 40.4468 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, 120, 170) }
```


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

```
.border{ border-color:rgb(0, 120, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 120, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 120, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 120, 170);  
box-shadow:4px 4px 4px 4px rgb(0, 120,  
170) }
```

Background

The CSS property to change the background color of an element to XYZ 13.9722, 16.3352, 40.4468 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 120, 170) }
```

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

```
.background{ background-color: rgb(0, 120,  
170) }
```

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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