

Converting Colors

XYZ(8.6356, 13.3636, 36.5751)

Have a look what the booklet for
XYZ(8.6356, 13.3636, 36.5751)
contains.

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Color

**XYZ(13.0893, 15.6012,
36.9718)**

Conversions

Conversions Part 1

Format	Color
Hex	0076A3
RGB	0, 118, 163
RGB Percent	0%, 46%, 64%
CMY	0.9999, 0.5372, 0.3608
CMYK	1.00, 0.28, 0.00, 0.36
HSL	197°, 100%, 32%
HSV	197°, 100%, 64%
XYZ	13.0893, 15.6012, 36.9718
YIQ	87.8480, -84.7730, -11.0210

Conversions

Conversions Part 2

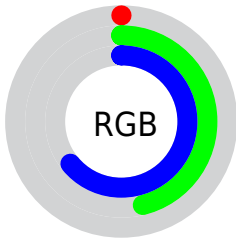
Format	Color
RYB	0, 68, 163
Decimal	30371
CIELab	46.45, -10.96, -31.86
CIELCh	46, 33.696, 251.012
Yxy	15.6012, 0.1993, 0.2376
Android (android.graphics.Color)	4278220451 (0xFF0076A3)
YUV	87.8480, 37.0499, -77.0427
Hunter-Lab	39.4984, -9.9693, -27.8486

Details

The XYZ color **13.0893, 15.6012, 36.9718** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **16.0440, 9.6656, 1.0209**, and the grayscale version is **9.1799, 9.6579, 10.5175**.

A 20% lighter version of the original color is **31.0541, 35.8861, 71.6197**, and **5.0594, 5.5280, 15.8393** is the 20% darker color. If you saturate the color by 10%, you get **13.0886, 15.5996, 36.9719**, and if you desaturate by 10%, it is **13.8516, 16.8001, 37.1634**.

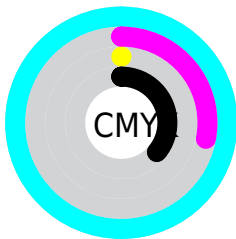
Distribution



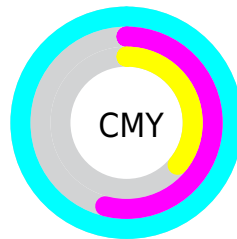
- Red (0%)
- Green (46%)
- Blue (64%)



- 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 13.0893, 15.6012, 36.9718 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 13.0893, 15.6012, 36.9718 by changing the saturation by 10% instead.

■ 13.0893, 15.6012,
36.9718

■ 13.0893, 15.6012,
36.9718

205.1152,
226.9768, 348.3534

■ 7.5675, 9.2424,
24.8900

■ 31.0641, 35.9045,
71.7153

■ 3.8689, 4.8996,
15.7769

■ 44.2477, 50.6177,
95.2140

■ 1.6283, 2.1885,
9.2138

■ 60.7161, 68.8846,
123.3556

■ 0.4107, 0.7137,
4.7822

■ 80.8345, 91.0895,
156.5584

■ 0.0000, 0.0000,
2.0635

■ 104.9682,
117.6167, 195.2410

■ 0.0000, 0.0000,
0.5939

■ 133.4827,

■ 0.0000, 0.0000,

148.8508, 239.8221

0.0000

166.7432,
185.1760, 290.7200

■ 13.0893, 15.6012,
36.9718

■ 13.0893, 15.6012,
36.9718

■ 13.0886, 15.5996,
36.9719

■ 13.8516, 16.8001,
37.1634

■ 14.8160, 18.1411,
37.3714

■ 16.0582, 19.6638,
37.5998

■ 17.6109, 21.3855,
37.8503

■ 19.5019, 23.3213,
38.1243

■ 21.7558, 25.4841,
38.4229

■ 24.3950, 27.8860,
38.7475

■ 27.4397, 30.5378,
39.0988

■ 30.9088, 33.4498,
39.4781

Harmonies

Analogous

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



11.0107, 15.6012, 29.7498



13.0893, 15.6012, 36.9718



15.9179, 15.6012, 37.9445

Triad

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



13.0893, 15.6012, 36.9718



20.9942, 15.6012, 14.1190



11.4660, 15.6012, 7.5706

Complementary

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



13.0893, 15.6012, 36.9718



16.0440, 9.6656, 1.0209

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.



13.7899, 15.6012, 5.6485



13.0893, 15.6012, 36.9718



19.4401, 15.6012, 8.5232

Square

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



13.0893, 15.6012, 36.9718



20.7424, 15.6012, 22.7228



16.7153, 15.6012, 5.9286



10.1613, 15.6012, 12.3082

Rectangle

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



13.0893, 15.6012, 36.9718



17.8868, 15.6012, 34.6508



16.7153, 15.6012, 5.9286



12.1403, 15.6012, 6.6564

Sweetspot

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



13.0899, 15.6017, 36.9722



43.3984, 49.6822, 69.3584



13.5427, 26.3729, 6.7094



9.3055, 10.7611, 15.5242



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.



13.0899, 15.6017, 36.9722



23.2651, 27.5869, 66.1547



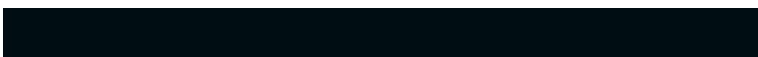
7.3062, 4.0344, 35.0443



7.1100, 7.6790, 9.0105



10.2115, 12.2024, 28.7469



0.2509, 0.3290, 0.6161

Inverse Universe

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



18.3748, 9.0953, 17.9270



32.8177, 16.2519, 31.6351



22.4349, 22.4473, 3.1512



7.2805, 7.1686, 8.4635



14.2998, 7.0760, 14.0351



0.3188, 0.1560, 0.3914

Previews

White Background



This preview shows how the XYZ color 13.0893, 15.6012, 36.9718 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 13.0893, 15.6012, 36.9718 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 13.0893, 15.6012, 36.9718

Background



This preview shows how black text looks on a background with the XYZ color 13.0893, 15.6012, 36.9718.

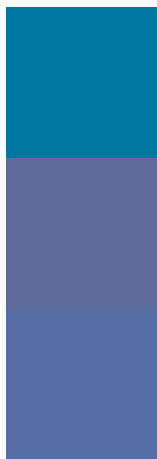


This preview shows how white text looks on a background with the XYZ color 13.0893, 15.6012,

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

13.0893, 15.6012, 36.9718

Protanopia

15.9983, 15.5246, 33.1637

Deuteranopia

15.9163, 15.5387, 37.7577



Tritanopia

11.0563, 15.5578, 23.8930

Trichromacy



Original Color

13.0893, 15.6012, 36.9718

Protanomaly

13.8292, 15.0176, 34.5176

Deuteranomaly

13.9632, 15.0256, 37.2862

Tritanomaly

11.7953, 15.6579, 28.3872

Monochromacy



Original Color

13.0893, 15.6012, 36.9718

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

9.1872, 11.0022, 17.8591

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.0893, 15.6012, 36.9718 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, 163)` looks like.

```
.text, #text, p{  
    color:rgb(0, 118, 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, 118, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 118, 163) }
```

Border

The CSS property to change the border of an element to XYZ 13.0893, 15.6012, 36.9718 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, 163) }
```


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

```
.border{ border-color:rgb(0, 118, 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, 118, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 118, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 118, 163);  
box-shadow:4px 4px 4px 4px rgb(0, 118,  
163) }
```

Background

The CSS property to change the background color of an element to XYZ 13.0893, 15.6012, 36.9718 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, 163) }
```

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

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