

Converting Colors

XYZ(9.6184, 12.9700, 40.2787)

Have a look what the booklet for
XYZ(9.6184, 12.9700, 40.2787)
contains.

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Color

**XYZ(13.3680, 14.9749,
40.7140)**

Conversions

Conversions Part 1

Format	Color
Hex	0072AB
RGB	0, 114, 171
RGB Percent	0%, 45%, 67%
CMY	0.9999, 0.5529, 0.3294
CMYK	1.00, 0.33, 0.00, 0.33
HSL	200°, 100%, 34%
HSV	200°, 100%, 67%
XYZ	13.3680, 14.9749, 40.7140
YIQ	86.4120, -86.2410, -6.4410

Conversions

Conversions Part 2

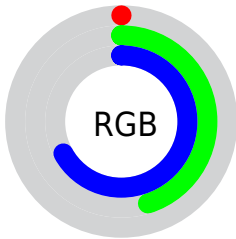
Format	Color
RYB	0, 68, 171
Decimal	29355
CIELab	45.60, -5.49, -37.88
CIELCh	46, 38.277, 261.749
Yxy	14.9749, 0.1936, 0.2168
Android (android.graphics.Color)	4278219435 (0xFF0072AB)
YUV	86.4120, 41.7019, -75.7833
Hunter-Lab	38.6974, -6.0578, -35.2915

Details

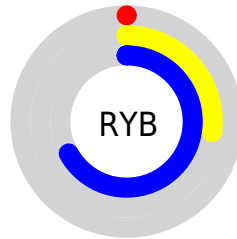
The XYZ color **13.3680, 14.9749, 40.7140** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **18.2595, 11.5873, 1.2751**, and the grayscale version is **8.8622, 9.3237, 10.1536**.

A 20% lighter version of the original color is **31.7178, 34.9921, 77.7555**, and **5.2182, 5.2044, 17.8691** is the 20% darker color. If you saturate the color by 10%, you get **13.3671, 14.9729, 40.7140**, and if you desaturate by 10%, it is **14.2650, 16.4221, 40.9464**.

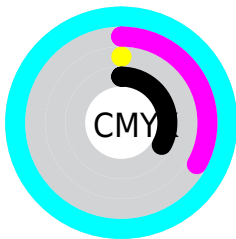
Distribution



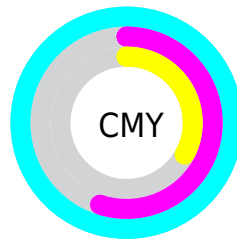
- Red (0%)
- Green (45%)
- Blue (67%)



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



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



- Cyan (100%)
- Magenta (55%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.3680, 14.9749, 40.7140 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 13.3680, 14.9749, 40.7140 by changing the saturation by 10% instead.

13.3680, 14.9749,
40.7140

13.3680, 14.9749,
40.7140

206.8531,
223.2142, 364.7650

7.7612, 8.8018,
27.7777

31.5591, 34.8091,
77.4985

3.9930, 4.6121,
17.9205

44.8740, 49.2390,
102.1837

1.6982, 2.0215,
10.7241

61.4891, 67.1900,
131.6223

0.4551, 0.6199,
5.7698

81.7696, 89.0464,
166.2329

0.0000, 0.0000,
2.6391

106.0809,
115.1926, 206.4339

0.0000, 0.0000,
0.9125

134.7883,

0.0000, 0.0000,

146.0131, 252.6439

0.0000

168.2573,
181.8921, 305.2814

■ 13.3680, 14.9749,
40.7140

■ 13.3680, 14.9749,
40.7140

■ 13.3671, 14.9729,
40.7140

■ 14.2650, 16.4221,
40.9464

■ 15.4028, 18.0538,
41.2014

■ 16.8630, 19.9133,
41.4833

■ 18.6828, 22.0207,
41.7942

■ 20.8939, 24.3935,
42.1356

■ 23.5244, 27.0469,
42.5092

■ 26.5996, 29.9950,
42.9161

■ 30.1427, 33.2506,
43.3578

■ 34.1752, 36.8258,
43.8353

Harmonies

Analogous

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



10.7523, 14.9749, 34.4372



13.3680, 14.9749, 40.7140



16.6381, 14.9749, 38.7718

Triad

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



13.3680, 14.9749, 40.7140



20.7502, 14.9749, 10.6063



9.9258, 14.9749, 7.6451

Complementary

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



13.3680, 14.9749, 40.7140



18.2595, 11.5873, 1.2751

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.



12.0720, 14.9749, 4.8006



13.3680, 14.9749, 40.7140



18.3943, 14.9749, 6.0095

Square

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



13.3680, 14.9749, 40.7140



21.2354, 14.9749, 18.9680



15.1349, 14.9749, 4.3414



8.9691, 14.9749, 13.9039

Rectangle

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



13.3680, 14.9749, 40.7140



18.7380, 14.9749, 33.3108



15.1349, 14.9749, 4.3414



10.5153, 14.9749, 6.3722

Sweetspot

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



13.3686, 14.9754, 40.7144



47.3149, 53.4155, 76.8183



15.3025, 29.4219, 8.7461



10.0306, 11.4180, 17.0629



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.



13.3686, 14.9754, 40.7144



23.7370, 26.4105, 72.8485



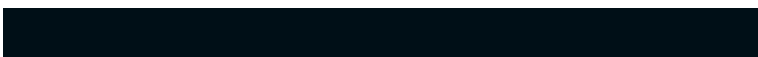
7.7790, 3.7961, 38.8512



8.0080, 8.6153, 10.1936



10.1265, 11.3869, 30.7087



0.3292, 0.4118, 0.8701

Inverse Universe

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



19.8324, 9.8736, 16.7804



35.4147, 17.6405, 29.5088



26.5433, 28.1549, 4.0363



8.2218, 8.1020, 9.4789



14.9750, 7.4526, 12.7799



0.4406, 0.2169, 0.4818

Previews

White Background



This preview shows how the XYZ color 13.3680, 14.9749, 40.7140 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 13.3680, 14.9749, 40.7140 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 13.3680, 14.9749, 40.7140

Background



This preview shows how black text looks on a background with the XYZ color 13.3680, 14.9749, 40.7140.



This preview shows how white text looks on a background with the XYZ color 13.3680, 14.9749,

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

13.3680, 14.9749, 40.7140

Protanopia

15.7854, 15.0146, 37.1881

Deuteranopia

15.3347, 15.0058, 41.1179



Tritanopia

10.6128, 14.9915, 22.7564

Trichromacy



Original Color

13.3680, 14.9749, 40.7140

Protanomaly

14.0192, 14.5395, 38.6267

Deuteranomaly

14.1045, 14.6883, 41.1215

Tritanomaly

11.5125, 14.9705, 28.6684

Monochromacy



Original Color

13.3680, 14.9749, 40.7140

Achromatopsia

8.8453, 9.3059, 10.1341

Achromatomaly

8.9693, 10.4623, 18.3763

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.3680, 14.9749, 40.7140 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, 114, 171)` looks like.

```
.text, #text, p{  
    color:rgb(0, 114, 171)  
}
```

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, 114, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 114, 171) }
```

Border

The CSS property to change the border of an element to XYZ 13.3680, 14.9749, 40.7140 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, 114, 171) }
```


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

```
.border{ border-color:rgb(0, 114, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 114, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 114, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 114, 171);  
box-shadow:4px 4px 4px 4px rgb(0, 114,  
171) }
```

Background

The CSS property to change the background color of an element to XYZ 13.3680, 14.9749, 40.7140 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 114, 171) }
```

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

```
.background{ background-color: rgb(0, 114,  
171) }
```

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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