

Converting Colors

XYZ(12.6976, 15.1517, 35.8120)

Have a look what the booklet for
XYZ(12.6976, 15.1517, 35.8120)
contains.

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Color

**XYZ(12.6784, 15.0640,
35.9576)**

Conversions

Conversions Part 1

Format	Color
Hex	0074A1
RGB	0, 116, 161
RGB Percent	0%, 45%, 63%
CMY	0.9999, 0.5451, 0.3686
CMYK	1.00, 0.28, 0.00, 0.37
HSL	197°, 100%, 32%
HSV	197°, 100%, 63%
XYZ	12.6784, 15.0640, 35.9576
YIQ	86.4460, -83.5810, -10.5970

Conversions

Conversions Part 2

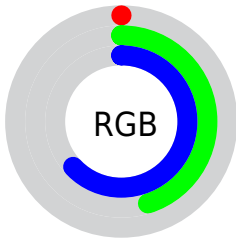
Format	Color
RYB	0, 67, 161
Decimal	29857
CIELab	45.72, -10.57, -31.83
CIELCh	46, 33.534, 251.629
Yxy	15.0640, 0.1990, 0.2365
Android (android.graphics.Color)	4278219937 (0xFF0074A1)
YUV	86.4460, 36.7551, -75.8131
Hunter-Lab	38.8124, -9.6131, -27.7604

Details

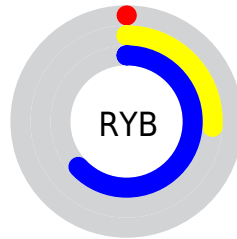
The XYZ color **12.6784, 15.0640, 35.9576** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **15.6375, 9.4559, 1.0017**, and the grayscale version is **8.8790, 9.3414, 10.1727**.

A 20% lighter version of the original color is **30.3278, 34.9894, 70.1209**, and **4.8274, 5.2384, 15.2247** is the 20% darker color. If you saturate the color by 10%, you get **12.6778, 15.0627, 35.9577**, and if you desaturate by 10%, it is **13.4259, 16.2385, 36.1452**.

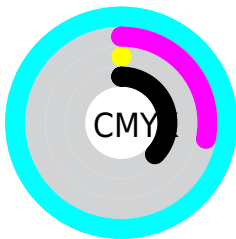
Distribution



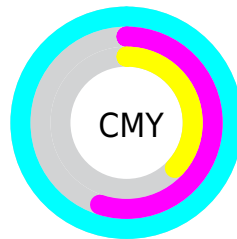
- Red (0%)
- Green (45%)
- Blue (63%)



- Red (0%)
- Yellow (26%)
- Blue (63%)



- Cyan (100%)
- Magenta (28%)
- Yellow (0%)
- Black (37%)



- Cyan (100%)
- Magenta (55%)
- Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6784, 15.0640, 35.9576 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 12.6784, 15.0640, 35.9576 by changing the saturation by 10% instead.

12.6784, 15.0640,
35.9576

12.6784, 15.0640,
35.9576

202.5257,
223.7533, 343.8070

7.2829, 8.8643,
24.1120

30.3311, 34.9654,
70.1349

3.6876, 4.6528,
15.2038

43.3189, 49.4359,
93.3037

1.5269, 2.0450,
8.8143

59.5684, 67.4322,
121.0841

0.3441, 0.6334,
4.5251

79.4447, 89.3386,
153.8944

0.0000, 0.0000,
1.9176

103.3132,
115.5395, 192.1533

0.0000, 0.0000,
0.5039

131.5393,

0.0000, 0.0000,

146.4193, 236.2794

0.0000

164.4883,
182.3624, 286.6911

■ 12.6784, 15.0640,
35.9576

■ 12.6784, 15.0640,
35.9576

■ 12.6778, 15.0627,
35.9577

■ 13.4259, 16.2385,
36.1452

■ 14.3697, 17.5518,
36.3490

■ 15.5842, 19.0430,
36.5728

■ 17.1009, 20.7288,
36.8183

■ 18.9470, 22.6238,
37.0867

■ 21.1463, 24.7406,
37.3794

■ 23.7205, 27.0909,
37.6974

■ 26.6893, 29.6854,
38.0417

■ 30.0709, 32.5338,
38.4132

Harmonies

Analogous

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



10.6403, 15.0640, 29.0098



12.6784, 15.0640, 35.9576



15.4373, 15.0640, 36.7599

Triad

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



12.6784, 15.0640, 35.9576



20.3027, 15.0640, 13.4708



11.0139, 15.0640, 7.3276

Complementary

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



12.6784, 15.0640, 35.9576



15.6375, 9.4559, 1.0017

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.



13.2540, 15.0640, 5.4199



12.6784, 15.0640, 35.9576



18.7581, 15.0640, 8.1072

Square

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



12.6784, 15.0640, 35.9576



20.0954, 15.0640, 21.7905



16.0929, 15.0640, 5.6486



9.7697, 15.0640, 11.9845

Rectangle

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



12.6784, 15.0640, 35.9576



17.3491, 15.0640, 33.4642



16.0929, 15.0640, 5.6486



11.6621, 15.0640, 6.4250

Sweetspot

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



12.6790, 15.0645, 35.9580



42.1951, 48.2616, 67.4780



13.1805, 25.6642, 6.5399



8.8407, 10.2114, 14.7487



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



12.6790, 15.0645, 35.9580



22.5310, 26.6284, 64.3388



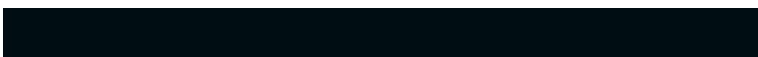
7.1134, 3.9333, 34.1028



7.1080, 7.6749, 9.0098



10.1608, 12.1011, 28.7300



0.2501, 0.3275, 0.6159

Inverse Universe

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



17.8508, 8.8387, 17.2886



31.8801, 15.7928, 30.4965



21.8359, 21.8525, 3.0678



7.2795, 7.1682, 8.4581



14.2742, 7.0657, 13.9004



0.3184, 0.1559, 0.3894

Previews

White Background



This preview shows how the XYZ color 12.6784, 15.0640, 35.9576 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 12.6784, 15.0640, 35.9576 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

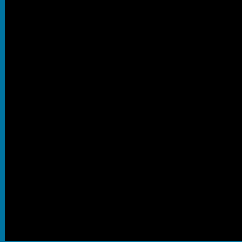
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.6784, 15.0640, 35.9576

Background



This preview shows how black text looks on a background with the XYZ color 12.6784, 15.0640, 35.9576.

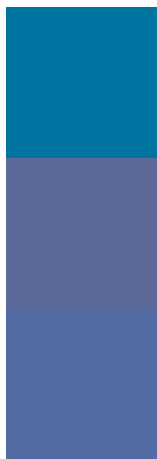


This preview shows how white text looks on a background with the XYZ color 12.6784, 15.0640,

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

12.6784, 15.0640, 35.9576

Protanopia

15.4180, 14.9351, 32.2071

Deuteranopia

15.4531, 15.1633, 36.7627



Tritanopia

10.6789, 15.0179, 23.1048

Trichromacy



Original Color

12.6784, 15.0640, 35.9576

Protanomaly

13.3803, 14.4820, 33.5426

Deuteranomaly

13.6222, 14.7076, 36.3033

Tritanomaly

11.4045, 15.1167, 27.5160

Monochromacy



Original Color

12.6784, 15.0640, 35.9576

Achromatopsia

8.8453, 9.3059, 10.1341

Achromatomaly

8.8309, 10.5539, 17.1944

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6784, 15.0640, 35.9576 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, 116, 161)` looks like.

```
.text, #text, p{  
    color:rgb(0, 116, 161)  
}
```

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, 116, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 116, 161) }
```

Border

The CSS property to change the border of an element to XYZ 12.6784, 15.0640, 35.9576 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, 116, 161) }
```


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

```
.border{ border-color:rgb(0, 116, 161) }
```

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

Here you see how a box with a 4 pixel rgb(0, 116, 161) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 116, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 116, 161);  
box-shadow:4px 4px 4px 4px rgb(0, 116,  
161) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6784, 15.0640, 35.9576 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 116, 161) }
```

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

```
.background{ background-color: rgb(0, 116,  
161) }
```

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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