

Converting Colors

XYZ(10.2611, 12.4711, 67.1997)

Have a look what the booklet for
XYZ(10.2611, 12.4711, 67.1997)
contains.

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Color

**XYZ(18.3186, 16.5981,
67.8839)**

Conversions

Conversions Part 1

Format	Color
Hex	0070D9
RGB	0, 112, 217
RGB Percent	0%, 44%, 85%
CMY	0.9998, 0.5608, 0.1490
CMYK	1.00, 0.48, 0.00, 0.15
HSL	209°, 100%, 43%
HSV	209°, 100%, 85%
XYZ	18.3186, 16.5981, 67.8839
YIQ	90.4820, -100.4570, 8.9110

Conversions

Conversions Part 2

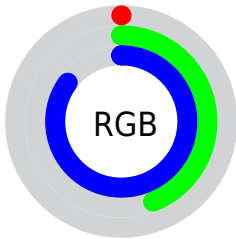
Format	Color
RYB	0, 74, 217
Decimal	28889
CIELab	47.75, 14.03, -60.94
CIELCh	48, 62.539, 282.967
Yxy	16.5981, 0.1782, 0.1615
Android (android.graphics.Color)	4278218969 (0xFF0070D9)
YUV	90.4820, 62.3734, -79.3527
Hunter-Lab	40.7408, 8.9641, -70.2728

Details

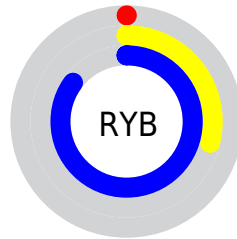
The XYZ color **18.3186, 16.5981, 67.8839** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **33.6732, 24.8669, 3.0267**, and the grayscale version is **9.7108, 10.2165, 11.1258**.

A 20% lighter version of the original color is **36.6267, 36.2392, 99.6722**, and **8.3812, 6.4696, 34.5252** is the 20% darker color. If you saturate the color by 10%, you get **18.3156, 16.5920, 67.8833**, and if you desaturate by 10%, it is **19.8715, 19.2205, 68.3087**.

Distribution



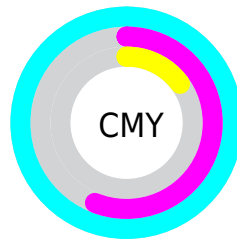
- Red (0%)
- Green (44%)
- Blue (85%)



- Red (0%)
- Yellow (29%)
- Blue (85%)



- Cyan (100%)
- Magenta (48%)
- Yellow (0%)
- Black (15%)



- Cyan (100%)
- Magenta (56%)
- Yellow (15%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.3186, 16.5981, 67.8839 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 18.3186, 16.5981, 67.8839 by changing the saturation by 10% instead.

■ 18.3186, 16.5981,
67.8839

■ 18.3186, 16.5981,
67.8839

235.6718,
232.8456, 471.6714

■ 11.2800, 9.9484,
49.3372

■ 40.1053, 37.6335,
117.8387

■ 6.3242, 5.3647,
34.5195

■ 55.5842, 52.7879,
150.0838

■ 3.0857, 2.4628,
23.0124

■ 74.6072, 71.5460,
187.7322

■ 1.1993, 0.8579,
14.3973

■ 97.5397, 94.2922,
231.2024

■ 0.1058, 0.0000,
8.2556

■ 124.7470,
121.4108, 280.9128

■ 0.0000, 0.0000,
4.1688

156.5946,

■ 0.0000, 0.0000,

153.2864, 337.2821

1.7184

193.4477,
190.3031, 400.7288

■ 0.0000, 0.0000,
0.3733

■ 0.0000, 0.0000,
0.0000

■ 18.3186, 16.5981,
67.8839

■ 18.3186, 16.5981,
67.8839

■ 18.3156, 16.5920,
67.8833

■ 19.8715, 19.2205,
68.3087

■ 21.9283, 22.3100,
68.7966

■ 24.6139, 25.9370,
69.3551

■ 27.9992, 30.1442,
69.9888

■ 32.1446, 34.9684,
70.7014

■ 37.1033, 40.4426,
71.4967

■ 42.9234, 46.5970,
72.3779

■ 49.6490, 53.4593,
73.3480

■ 57.3208, 61.0557,
74.4099

Harmonies

Analogous

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



12.8265, 16.5981, 66.5244



18.3186, 16.5981, 67.8839



24.3154, 16.5981, 51.3486

Triad

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



18.3186, 16.5981, 67.8839



25.0435, 16.5981, 4.1465



7.5556, 16.5981, 10.4587

Complementary

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



18.3186, 16.5981, 67.8839



33.6732, 24.8669, 3.0267

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.



9.5143, 16.5981, 3.5932



18.3186, 16.5981, 67.8839



19.1462, 16.5981, 1.7133

Square

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



18.3186, 16.5981, 67.8839



28.7730, 16.5981, 11.9964



13.4803, 16.5981, 1.5983



7.4351, 16.5981, 25.9162

Rectangle

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



18.3186, 16.5981, 67.8839



27.4472, 16.5981, 36.0316



13.4803, 16.5981, 1.5983



7.9950, 16.5981, 7.3650

Sweetspot

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



18.3194, 16.5985, 67.8844



61.5897, 66.8736, 104.2695



27.3591, 50.6445, 21.6747



12.3890, 13.4825, 22.1994



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



18.3194, 16.5985, 67.8844



26.2444, 23.6089, 97.7815



12.5651, 5.0899, 65.9663



12.8916, 13.7229, 16.6215



11.1936, 10.2566, 41.1282



0.8113, 0.8368, 2.6932

Inverse Universe

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



31.5407, 15.9229, 16.7403



45.3762, 22.9145, 23.7108



52.5069, 62.5343, 9.3046



13.3351, 13.1632, 15.0261



19.1453, 9.6592, 10.4113



1.2838, 0.6432, 0.9035

Previews

White Background



This preview shows how the XYZ color 18.3186, 16.5981, 67.8839 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 18.3186, 16.5981, 67.8839 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

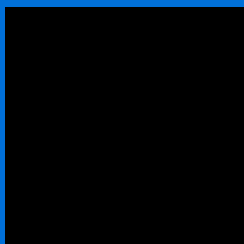
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

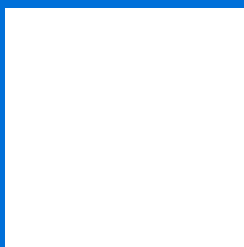
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 18.3186, 16.5981, 67.8839

Background



This preview shows how black text looks on a background with the XYZ color 18.3186, 16.5981, 67.8839.



This preview shows how white text looks on a background with the XYZ color 18.3186, 16.5981,

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

18.3186, 16.5981, 67.8839

Protanopia

19.1818, 16.6045, 65.8123

Deuteranopia

16.6733, 16.4785, 57.5602



Tritanopia

11.6367, 16.3885, 25.1042

Trichromacy



Original Color

18.3186, 16.5981, 67.8839

Protanomaly

18.5348, 16.4155, 66.4816

Deuteranomaly

17.2798, 16.5396, 61.3132

Tritanomaly

13.4173, 16.1133, 37.5250

Monochromacy



Original Color

18.3186, 16.5981, 67.8839

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

10.4990, 11.3828, 24.9363

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.3186, 16.5981, 67.8839 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, 112, 217)` looks like.

```
.text, #text, p{  
    color:rgb(0, 112, 217)  
}
```

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, 112, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 112, 217) }
```

Border

The CSS property to change the border of an element to XYZ 18.3186, 16.5981, 67.8839 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, 112, 217) }
```


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

```
.border{ border-color:rgb(0, 112, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 112, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 112, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 112, 217);  
box-shadow:4px 4px 4px 4px rgb(0, 112,  
217) }
```

Background

The CSS property to change the background color of an element to XYZ 18.3186, 16.5981, 67.8839 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 112, 217) }
```

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

```
.background{ background-color: rgb(0, 112,  
217) }
```

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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