

Converting Colors

XYZ(19.8791, 16.7093, 77.6829)

Have a look what the booklet for
XYZ(19.8791, 16.7093, 77.6829)
contains.

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Color

**XYZ(19.8924, 16.7068,
77.7776)**

Conversions

Conversions Part 1

Format	Color
Hex	006DE7
RGB	0, 109, 231
RGB Percent	0%, 43%, 91%
CMY	0.9998, 0.5725, 0.0941
CMYK	1.00, 0.53, 0.00, 0.09
HSL	212°, 100%, 45%
HSV	212°, 100%, 91%
XYZ	19.8924, 16.7068, 77.7776
YIQ	90.3170, -104.1260, 14.8340

Conversions

Conversions Part 2

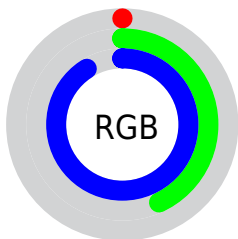
Format	Color
R _Y B	0, 74, 231
Decimal	28135
CIE _{Lab}	47.89, 21.48, -68.63
CIE _{LCh}	48, 71.914, 287.379
Y _{xy}	16.7068, 0.1739, 0.1461
Android (android.graphics.Color)	4278218215 (0xFF006DE7)
Y _{UV}	90.3170, 69.3567, -79.2080
Hunter-Lab	40.8740, 15.3424, -84.2091

Details

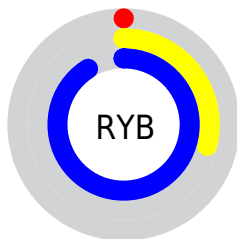
The XYZ color **19.8924, 16.7068, 77.7776** is a dark color, and the websafe version is hex **3366CC**. The color can be described as dark washed azure. A complement of this color would be **39.9220, 30.9222, 3.8661**, and the grayscale version is **9.6592, 10.1622, 11.0667**.

A 20% lighter version of the original color is **36.5647, 35.4258, 99.5184**, and **9.4175, 6.6110, 40.8241** is the 20% darker color. If you saturate the color by 10%, you get **19.8894, 16.7005, 77.7770**, and if you desaturate by 10%, it is **21.6429, 19.6777, 78.2592**.

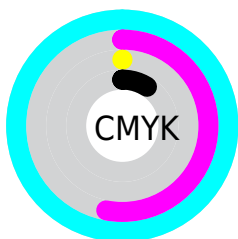
Distribution



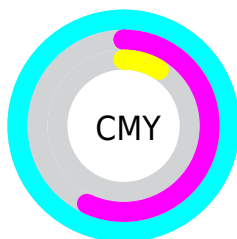
- Red (0%)
- Green (43%)
- Blue (91%)



- Red (0%)
- Yellow (29%)
- Blue (91%)



- Cyan (100%)
- Magenta (53%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (57%)
- Yellow (9%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 19.8924, 16.7068, 77.7776 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 19.8924, 16.7068, 77.7776 by changing the saturation by 10% instead.

■ 19.8924, 16.7068,
77.7776

■ 19.8924, 16.7068,
77.7776

244.1767,
233.4770, 506.9191

■ 12.4247, 10.0257,
57.3759

■ 42.7420, 37.8210,
132.0196

■ 7.1078, 5.4160,
40.8958

■ 58.8546, 53.0228,
166.6970

■ 3.5766, 2.4933,
27.9186

■ 78.5796, 71.8337,
206.9700

■ 1.4655, 0.8733,
18.0258

■ 102.2822, 94.6379,
253.2573

■ 0.3022, 0.0000,
10.7989

■ 130.3279,
121.8200, 305.9773

■ 0.0000, 0.0000,
5.8193

163.0819,

■ 0.0000, 0.0000,

153.7643, 365.5485

2.6685

200.9098,
190.8552, 432.3896

■ 0.0000, 0.0000,
0.9275

■ 0.0000, 0.0000,
0.0000

■ 19.8924, 16.7068,
77.7776

■ 19.8924, 16.7068,
77.7776

■ 19.8894, 16.7005,
77.7770

■ 21.6429, 19.6777,
78.2592

■ 24.0054, 23.2429,
78.8228

■ 27.1222, 27.4853,
79.4774

■ 31.0781, 32.4581,
80.2288

■ 35.9451, 38.2074,
81.0820

■ 41.7868, 44.7744,
82.0417

■ 48.6605, 52.1968,
83.1121

■ 56.6188, 60.5098,
84.2972

■ 65.7106, 69.7462,
85.6008

Harmonies

Analogous

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



13.3132, 16.7068, 79.8114



19.8924, 16.7068, 77.7776



26.9052, 16.7068, 54.5538

Triad

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



19.8924, 16.7068, 77.7776



25.8807, 16.7068, 2.5519



6.5704, 16.7068, 11.4636

Complementary

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



19.8924, 16.7068, 77.7776



39.9220, 30.9222, 3.8661

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.



8.3716, 16.7068, 3.1591



19.8924, 16.7068, 77.7776



18.7557, 16.7068, 0.8662

Square

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



19.8924, 16.7068, 77.7776



30.9565, 16.7068, 9.4895



12.4459, 16.7068, 0.9743



6.7199, 16.7068, 31.0424

Rectangle

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



19.8924, 16.7068, 77.7776



30.3531, 16.7068, 35.6243



12.4459, 16.7068, 0.9743



6.9417, 16.7068, 7.6401

Sweetspot

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



19.8932, 16.7072, 77.7781



60.7206, 65.1353, 103.9798



31.9293, 58.4935, 27.1794



12.1838, 13.0721, 22.1310



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.



19.8932, 16.7072, 77.7781



24.8016, 20.7232, 97.3005



14.4734, 5.7960, 75.9577



14.1407, 15.0028, 18.2949



11.2724, 9.6069, 43.6434



0.9254, 0.8947, 3.2559

Inverse Universe

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



35.7161, 18.0944, 16.0781



44.6479, 22.6232, 19.8757



60.3028, 73.5078, 11.0118



14.6586, 14.4806, 16.4026



20.0833, 10.1675, 9.3335



1.5307, 0.7700, 0.9353

Previews

White Background



This preview shows how the XYZ color 19.8924, 16.7068, 77.7776 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 19.8924, 16.7068, 77.7776 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

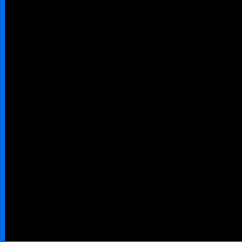
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

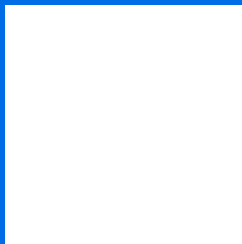
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 19.8924, 16.7068, 77.7776

Background



This preview shows how black text looks on a background with the XYZ color 19.8924, 16.7068, 77.7776.



This preview shows how white text looks on a background with the XYZ color 19.8924, 16.7068,

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

19.8924, 16.7068, 77.7776

Protanopia

20.0894, 16.8084, 77.7868

Deuteranopia

16.6707, 16.6609, 56.9808



Tritanopia

11.7639, 16.6429, 25.1466

Trichromacy



Original Color

19.8924, 16.7068, 77.7776

Protanomaly

20.0176, 16.7713, 77.7835

Deuteranomaly

17.6630, 16.5134, 63.8845

Tritanomaly

13.8779, 16.2975, 39.9504

Monochromacy



Original Color

19.8924, 16.7068, 77.7776

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

10.7698, 11.3423, 26.8210

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.8924, 16.7068, 77.7776 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, 109, 231)` looks like.

```
.text, #text, p{  
    color:rgb(0, 109, 231)  
}
```

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, 109, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 109, 231) }
```

Border

The CSS property to change the border of an element to XYZ 19.8924, 16.7068, 77.7776 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, 109, 231) }
```


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

```
.border{ border-color:rgb(0, 109, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 109, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 109, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 109, 231);  
box-shadow:4px 4px 4px 4px rgb(0, 109,  
231) }
```

Background

The CSS property to change the background color of an element to XYZ 19.8924, 16.7068, 77.7776 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 109, 231) }
```

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

```
.background{ background-color: rgb(0, 109,  
231) }
```

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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