

Converting Colors

XYZ(19.0282, 13.3802, 69.9876)

Have a look what the booklet for
XYZ(19.0282, 13.3802, 69.9876)
contains.

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Color

**XYZ(18.9851, 13.3389,
69.9807)**

Conversions

Conversions Part 1

Format	Color
Hex	4657DD
RGB	70, 87, 221
RGB Percent	27%, 34%, 87%
CMY	0.7255, 0.6588, 0.1333
CMYK	0.68, 0.61, 0.00, 0.13
HSL	233°, 69%, 57%
HSV	233°, 68%, 87%
XYZ	18.9851, 13.3389, 69.9807
YIQ	97.1930, -53.1460, 38.0700

Conversions

Conversions Part 2

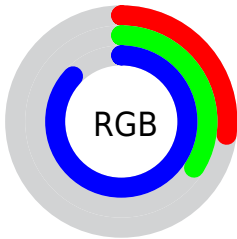
Format	Color
RYB	70, 85, 221
Decimal	4610013
CIELab	43.27, 36.81, -70.41
CIELCh	43, 79.449, 297.597
Yxy	13.3389, 0.1856, 0.1304
Android (android.graphics.Color)	4282800093 (0xFF4657DD)
YUV	97.1930, 61.0369, -23.8483
Hunter-Lab	36.5225, 28.8735, -88.0399

Details

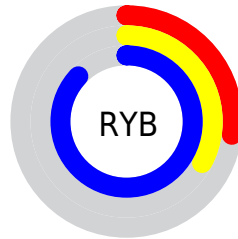
The XYZ color **18.9851, 13.3389, 69.9807** is a dark color, and the websafe version is hex **3366FF**. The color can be described as dark muted blue. A complement of this color would be **52.5200, 59.0051, 14.4169**, and the grayscale version is **11.2745, 11.8617, 12.9174**.

A 20% lighter version of the original color is **36.9873, 30.2622, 98.4995**, and **7.6195, 4.3725, 36.0397** is the 20% darker color. If you saturate the color by 10%, you get **16.2961, 9.9071, 69.4604**, and if you desaturate by 10%, it is **22.6932, 17.9362, 70.6730**.

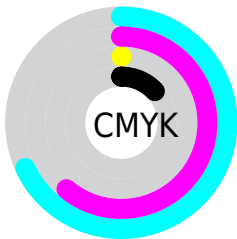
Distribution



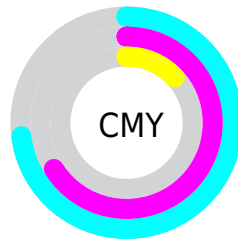
- Red (27%)
- Green (34%)
- Blue (87%)



- Red (27%)
- Yellow (33%)
- Blue (87%)



- Cyan (68%)
- Magenta (61%)
- Yellow (0%)
- Black (13%)



- Cyan (73%)
- Magenta (66%)
- Yellow (13%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.9851, 13.3389, 69.9807 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 18.9851, 13.3389, 69.9807 by changing the saturation by 10% instead.

■ 18.9851, 13.3389,
69.9807

■ 18.9851, 13.3389,
69.9807

239.3062,
213.0784, 479.2695

■ 11.7635, 7.6623,
51.0341

■ 41.2260, 31.9113,
120.8621

■ 6.6539, 3.8796,
35.8588

■ 56.9759, 45.5759,
153.6340

■ 3.2910, 1.6065,
24.0364

■ 76.2994, 62.6720,
191.8513

■ 1.3094, 0.3620,
15.1481

■ 99.5616, 83.5840,
235.9327

■ 0.1903, 0.0000,
8.7756

■ 127.1281,
108.6962, 286.2967

■ 0.0000, 0.0000,
4.5003

159.3641,

■ 0.0000, 0.0000,

138.3931, 343.3618

1.9036

196.6350,
173.0590, 407.5466

■ 0.0000, 0.0000,
0.4950

■ 0.0000, 0.0000,
0.0000

■ 18.9851, 13.3389,
69.9807

■ 18.9851, 13.3389,
69.9807

■ 16.2961, 9.9071,
69.4604

■ 22.6932, 17.9362,
70.6730

■ 14.5201, 7.5330,
69.0957

■ 27.5077, 23.7915,
71.5494

■ 13.5167, 6.0825,
68.8686

■ 33.5090, 30.9889,
72.6224

■ 13.3960, 5.9101,
68.8417

■ 40.7693, 39.6049,
73.9028

■ 49.3551, 49.7104,
75.4008

■ 59.3281, 61.3714,
77.1259

■ 70.7463, 74.6498,
79.0871

■ 83.6640, 89.6044,
81.2928

■ 90.0512, 98.0005,
82.5768

Harmonies

Analogous

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



12.1888, 13.3389, 81.4677



18.9851, 13.3389, 69.9807



25.5166, 13.3389, 41.2894

Triad

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



18.9851, 13.3389, 69.9807



20.1315, 13.3389, 0.5260



4.1520, 13.3389, 13.1495

Complementary

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



18.9851, 13.3389, 69.9807



52.5200, 59.0051, 14.4169

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.



5.0842, 13.3389, 2.8836



18.9851, 13.3389, 69.9807



13.1806, 13.3389, 0.0000

Square

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



18.9851, 13.3389, 69.9807



26.3152, 13.3389, 3.8043



7.9502, 13.3389, 0.2932



4.8193, 13.3389, 36.5475

Rectangle

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



18.9851, 13.3389, 69.9807



28.0945, 13.3389, 23.0821



7.9502, 13.3389, 0.2932



4.2795, 13.3389, 8.3954

Sweetspot

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



18.9858, 13.3392, 69.9811



65.9340, 66.0217, 103.8761



39.2085, 57.3458, 65.7430



13.3727, 13.2616, 22.1049



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.



18.9858, 13.3392, 69.9811



21.3268, 12.1078, 95.8207



24.1274, 14.1825, 69.8729



12.4561, 12.8519, 16.4763



7.8232, 3.5159, 40.0047



0.5472, 0.3086, 2.6052

Inverse Universe

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



33.7300, 20.4418, 11.1846



43.3006, 23.6412, 7.9814



42.0913, 59.9548, 15.1498



13.1153, 13.0752, 13.8685



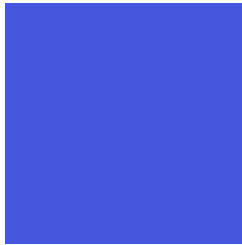
17.4441, 8.9787, 1.4529



1.1505, 0.5898, 0.2015

Previews

White Background



This preview shows how the XYZ color 18.9851, 13.3389, 69.9807 looks on a white background.

Color Contrast Check

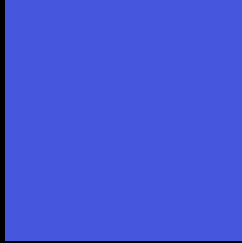
Large Text (above 18pt) WCAG AA ✓ Pass

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 18.9851, 13.3389, 69.9807 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

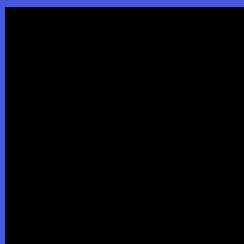
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 18.9851, 13.3389, 69.9807

Background



This preview shows how black text looks on a background with the XYZ color 18.9851, 13.3389, 69.9807.



This preview shows how white text looks on a background with the XYZ color 18.9851, 13.3389,

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

18.9851, 13.3389, 69.9807

Protanopia

15.7528, 13.2894, 61.4094

Deuteranopia

13.0870, 13.1553, 44.4973



Tritanopia

9.3563, 13.1907, 20.1421

Trichromacy



Original Color

18.9851, 13.3389, 69.9807

Protanomaly

16.4138, 13.0162, 64.5981

Deuteranomaly

14.5062, 12.8371, 52.7522

Tritanomaly

11.4370, 12.5416, 33.7163

Monochromacy



Original Color

18.9851, 13.3389, 69.9807

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

12.7273, 11.8079, 27.1995

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.9851, 13.3389, 69.9807 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(70, 87, 221)` looks like.

```
.text, #text, p{  
    color:rgb(70, 87, 221)  
}
```

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(70, 87, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 87, 221) }
```

Border

The CSS property to change the border of an element to XYZ 18.9851, 13.3389, 69.9807 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(70, 87, 221) }
```


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

```
.border{ border-color:rgb(70, 87, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 87, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 87, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 87, 221);  
box-shadow:4px 4px 4px 4px rgb(70, 87,  
221) }
```

Background

The CSS property to change the background color of an element to XYZ 18.9851, 13.3389, 69.9807 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 87, 221) }
```

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

```
.background{ background-color: rgb(70, 87,  
221) }
```

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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