

# Converting Colors

XYZ(18.3908, 7.5812, 86.7205)

Have a look what the booklet for  
XYZ(18.3908, 7.5812, 86.7205)  
contains.

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# Color

**XYZ(18.4059, 7.5847,  
86.8801)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3D00F5
RGB	61, 0, 245
RGB Percent	24%, 0%, 96%
CMY	0.7607, 1.0000, 0.0392
CMYK	0.75, 1.00, 0.00, 0.04
HSL	255°, 100%, 48%
HSV	255°, 100%, 96%
XYZ	18.4059, 7.5847, 86.8801
YIQ	46.1690, -42.2890, 89.1270

# Conversions

## Conversions Part 2

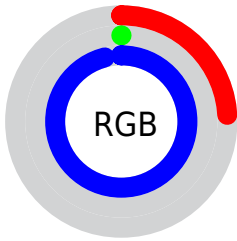
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	61, 0, 245
Decimal	3997941
CIE Lab	33.10, 77.63, -100.84
CIE LCh	33, 127.260, 307.588
Yxy	7.5847, 0.1631, 0.0672
Android (android.graphics.Color)	4282188021 (0xFF3D00F5)
YUV	46.1690, 98.0237, 13.0068
Hunter-Lab	27.5403, 71.1005, -167.7609

# Details

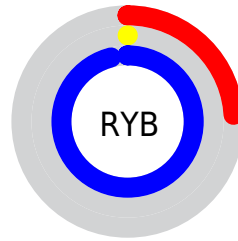
The XYZ color **18.4059, 7.5847, 86.8801** is a dark color, and the websafe version is hex **3300FF**. The color can be described as dark saturated blue. A complement of this color would be **52.4165, 75.4938, 11.8091**, and the grayscale version is **2.5201, 2.6513, 2.8873**.

A 20% lighter version of the original color is **31.0800, 17.4741, 96.3425**, and **8.9696, 3.5879, 47.2335** is the 20% darker color. If you saturate the color by 10%, you get **18.4068, 7.5851, 86.8804**, and if you desaturate by 10%, it is **20.0774, 8.9467, 87.0552**.

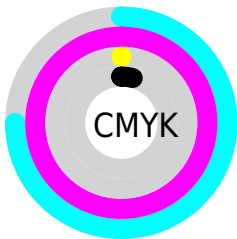
# Distribution



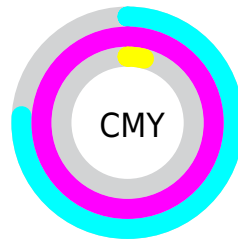
- Red (24%)
- Green (0%)
- Blue (96%)



- Red (24%)
- Yellow (0%)
- Blue (96%)



- Cyan (75%)
- Magenta (100%)
- Yellow (0%)
- Black (4%)



- Cyan (76%)
- Magenta (100%)
- Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.4059, 7.5847, 86.8801 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 18.4059, 7.5847, 86.8801 by changing the saturation by 10% instead.



■ 18.4059, 7.5847,  
86.8801

■ 18.4059, 7.5847,  
86.8801

236.1506,  
172.4374, 538.1348

■ 11.3432, 3.8304,  
64.8369

■ 40.2524, 21.1402,  
144.8944

■ 6.3672, 1.5791,  
46.8784

■ 55.7670, 31.7101,  
181.7026

■ 3.1124, 0.3435,  
32.5858

■ 74.8297, 45.3207,  
224.2696

■ 1.2135, 0.0000,  
21.5409

■ 97.8057, 62.3563,  
273.0139

■ 0.1170, 0.0000,  
13.3248

■ 125.0604, 83.2014,  
328.3540

■ 0.0000, 0.0000,  
7.5193


■ 156.9593,


■ 0.0000, 0.0000,


108.2404, 390.7085


3.7056


 193.8676,  
137.8576, 460.4959

 0.0000, 0.0000,  
1.4653


 0.0000, 0.0000,  
0.1918


 18.4059, 7.5847,  
86.8801


 18.4059, 7.5847,  
86.8801

 18.4068, 7.5851,  
86.8804

 20.0774, 8.9467,  
87.0552

 22.5964, 11.3754,  
87.3912

 26.1274, 15.1511,  
87.9339

 30.7780, 20.4465,  
88.7109

■ 36.6408, 27.4078,  
89.7456

■ 43.7983, 36.1637,  
91.0584

■ 52.3254, 46.8297,  
92.6677

■ 62.2910, 59.5119,  
94.5904

■ 73.7593, 74.3082,  
96.8419

# Harmonies

## Analogous

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



9.0660, 7.5847, 127.5004



18.4059, 7.5847, 86.8801



27.1511, 7.5847, 32.1502

# Triad

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



18.4059, 7.5847, 86.8801



13.3905, 7.5847, 0.0000



0.4037, 7.5847, 14.2167

# Complementary

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



18.4059, 7.5847, 86.8801



52.4165, 75.4938, 11.8091

# 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.



0.6112, 7.5847, 0.5980



18.4059, 7.5847, 86.8801



5.6247, 7.5847, 0.0000

# Square

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



18.4059, 7.5847, 86.8801



23.2031, 7.5847, 0.0000



1.8305, 7.5847, 0.0000



1.0345, 7.5847, 58.1705



# Rectangle

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



18.4059, 7.5847, 86.8801



29.5694, 7.5847, 9.9272



1.8305, 7.5847, 0.0000



0.3793, 7.5847, 6.7880

# Sweetspot

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



18.4068, 7.5851, 86.8804



57.2406, 51.2050, 101.4744



34.4292, 42.4880, 92.7729



11.3680, 9.8486, 21.5518



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.



18.4068, 7.5851, 86.8804



20.1322, 8.2934, 95.1474



35.2264, 16.2560, 87.6676



15.9678, 16.1260, 20.8136



10.0218, 4.1407, 46.8091



0.9710, 0.4104, 4.1183



# Inverse Universe

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



46.3067, 22.8727, 47.3144



50.6987, 25.0435, 51.7387



34.8546, 66.4403, 10.9872



17.0270, 16.6936, 19.8885



25.0045, 12.3452, 25.7957

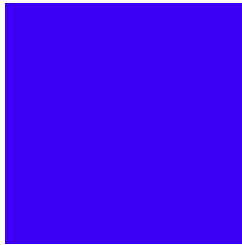


2.2384, 1.1013, 2.4818



# Previews

## White Background



This preview shows how the XYZ color 18.4059, 7.5847, 86.8801 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

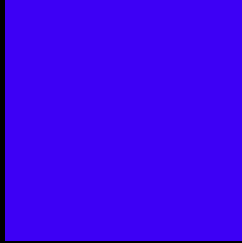
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 18.4059, 7.5847, 86.8801 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 18.4059, 7.5847, 86.8801**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.4059, 7.5847, 86.8801.



This preview shows how white text looks on a background with the XYZ color 18.4059, 7.5847,



# 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

18.4059, 7.5847, 86.8801

### Protanopia

8.9296, 7.7069, 34.2747

### Deuteranopia

7.3156, 7.6341, 24.0096



## Tritanopia

5.4215, 7.7522, 11.3358

# Trichromacy



## Original Color

18.4059, 7.5847, 86.8801

## Protanomaly

10.7918, 6.0461, 49.8884

## Deuteranomaly

9.2967, 5.7217, 41.1718

## Tritanomaly

7.0903, 5.1370, 28.6348

# Monochromacy



## Original Color

18.4059, 7.5847, 86.8801

## Achromatopsia

2.5969, 2.7321, 2.9752

## Achromatomaly

5.0746, 2.8905, 17.4300

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.4059, 7.5847, 86.8801 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(61, 0, 245)` looks like.

```
.text, #text, p{  
    color:rgb(61, 0, 245)  
}
```

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(61, 0, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 0, 245) }
```

## Border

The CSS property to change the border of an element to XYZ 18.4059, 7.5847, 86.8801 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(61, 0, 245) }
```



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

```
.border{ border-color:rgb(61, 0, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(61, 0, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 0, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 0, 245);  
box-shadow:4px 4px 4px 4px rgb(61, 0, 245)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.4059, 7.5847, 86.8801 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 0, 245) }
```

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

```
.background{ background-color: rgb(61, 0,  
245) }
```

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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