

# Converting Colors

XYZ(18.9277, 12.7616, 83.6702)

Have a look what the booklet for  
XYZ(18.9277, 12.7616, 83.6702)  
contains.

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# Color

**XYZ(18.9767, 12.7883,  
83.9063)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0055F0
RGB	0, 85, 240
RGB Percent	0%, 33%, 94%
CMY	0.9997, 0.6667, 0.0588
CMYK	1.00, 0.65, 0.00, 0.06
HSL	219°, 100%, 47%
HSV	219°, 100%, 94%
XYZ	18.9767, 12.7883, 83.9063
YIQ	77.2550, -100.4150, 30.1850

# Conversions

## Conversions Part 2

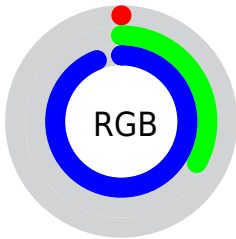
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 63, 240
Decimal	22000
CIE Lab	42.44, 40.33, -82.60
CIE LCh	42, 91.917, 296.023
Yxy	12.7883, 0.1641, 0.1106
Android (android.graphics.Color)	4278212080 (0xFF0055F0)
YUV	77.2550, 80.2333, -67.7526
Hunter-Lab	35.7607, 32.1411, -114.0811

# Details

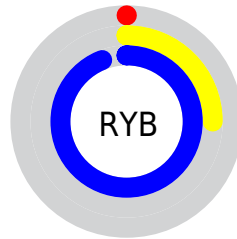
The XYZ color **18.9767, 12.7883, 83.9063** is a dark color, and the websafe version is hex **3366FF**. The color can be described as dark saturated blue. A complement of this color would be **47.6686, 41.9912, 5.5946**, and the grayscale version is **6.9742, 7.3374, 7.9904**.

A 20% lighter version of the original color is **33.1306, 27.6497, 98.1985**, and **9.3402, 5.0048, 45.2735** is the 20% darker color. If you saturate the color by 10%, you get **18.9732, 12.7813, 83.9055**, and if you desaturate by 10%, it is **20.7121, 15.6975, 84.3768**.

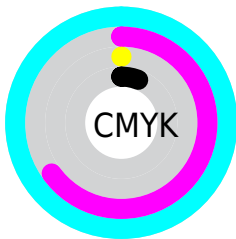
# Distribution



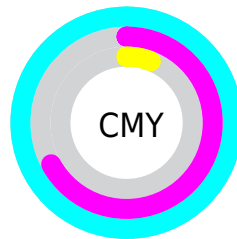
- Red (0%)
- Green (33%)
- Blue (94%)



- Red (0%)
- Yellow (25%)
- Blue (94%)



- Cyan (100%)
- Magenta (65%)
- Yellow (0%)
- Black (6%)



- Cyan (100%)
- Magenta (67%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.9767, 12.7883, 83.9063 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 18.9767, 12.7883, 83.9063 by changing the saturation by 10% instead.



■ 18.9767, 12.7883,  
83.9063

■ 18.9767, 12.7883,  
83.9063

239.2607,  
209.5564, 528.0519

■ 11.7573, 7.2829,  
62.3931

■ 41.2119, 30.9229,  
140.7047

■ 6.6497, 3.6397,  
44.9126

■ 56.9585, 44.3210,  
176.8269

■ 3.2884, 1.4741,  
31.0461

■ 76.2781, 61.1187,  
218.6560

■ 1.3080, 0.2704,  
20.3752

■ 99.5363, 81.7005,  
266.6104

■ 0.1892, 0.0000,  
12.4813

■ 127.0983,  
106.4508, 321.1086

■ 0.0000, 0.0000,  
6.9459

159.3294,

■ 0.0000, 0.0000,

135.7540, 382.5693

3.3503

196.5951,  
169.9944, 451.4109

■ 0.0000, 0.0000,  
1.2762

■ 0.0000, 0.0000,  
0.0421

■ 18.9767, 12.7883,  
83.9063

■ 18.9767, 12.7883,  
83.9063

■ 18.9732, 12.7813,  
83.9055

■ 20.7121, 15.6975,  
84.3768

■ 23.1966, 19.4139,  
84.9631

■ 26.5910, 24.0422,  
85.6776

■ 30.9955, 29.6544,  
86.5287

■ 36.4957, 36.3139,  
87.5242

■ 43.1672, 44.0777,  
88.6712

■ 51.0785, 52.9984,  
89.9761

■ 60.2926, 63.1246,  
91.4450

■ 70.8680, 74.5022,  
93.0837

# Harmonies

## Analogous

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



11.2552, 12.7883, 97.0248



18.9767, 12.7883, 83.9063



26.8639, 12.7883, 47.9217

# Triad

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



18.9767, 12.7883, 83.9063



21.2102, 12.7883, 0.0000



3.1269, 12.7883, 11.4450

# Complementary

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



18.9767, 12.7883, 83.9063



47.6686, 41.9912, 5.5946

# 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.



4.1231, 12.7883, 1.6402



18.9767, 12.7883, 83.9063



13.1013, 12.7883, 0.0000

# Square

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



18.9767, 12.7883, 83.9063



28.4603, 12.7883, 3.0045



7.2021, 12.7883, 0.0000



3.6903, 12.7883, 38.2256



# Rectangle

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



18.9767, 12.7883, 83.9063



30.1776, 12.7883, 25.3051



7.2021, 12.7883, 0.0000



3.2756, 12.7883, 6.5994

# Sweetspot

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



18.9775, 12.7885, 83.9067



58.4952, 60.6846, 103.2380



36.8306, 64.5887, 40.2422



11.6619, 12.0282, 21.9570



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.



18.9775, 12.7885, 83.9067



21.7285, 14.5771, 96.2762



16.3265, 6.6008, 82.8521



15.3550, 16.1442, 20.0284



10.4996, 7.2235, 45.9687



0.9639, 0.7818, 3.8543



# Inverse Universe

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



37.5757, 19.1827, 10.3162



43.0968, 22.0027, 11.7076



57.1757, 75.7319, 11.6062



16.0039, 15.8513, 17.5767



20.6253, 10.5226, 5.9436



1.7615, 0.8936, 0.7349



# Previews

## White Background



This preview shows how the XYZ color 18.9767, 12.7883, 83.9063 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

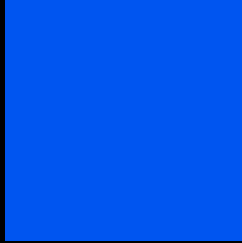
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 18.9767, 12.7883, 83.9063 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

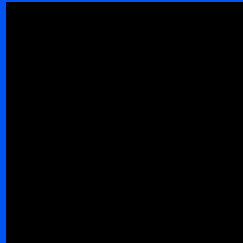
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 18.9767, 12.7883, 83.9063**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.9767, 12.7883, 83.9063.



This preview shows how white text looks on a background with the XYZ color 18.9767, 12.7883,



# 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

18.9767, 12.7883, 83.9063

### Protanopia

14.9624, 12.6775, 58.1583

### Deuteranopia

12.2942, 12.5199, 41.3038



## Tritanopia

8.8953, 12.6532, 18.8031

# Trichromacy



## Original Color

18.9767, 12.7883, 83.9063

## Protanomaly

16.2218, 12.6122, 66.5452

## Deuteranomaly

14.2609, 12.3970, 54.4645

## Tritanomaly

11.2730, 12.1114, 35.9260

# Monochromacy



## Original Color

18.9767, 12.7883, 83.9063

## Achromatopsia

7.0540, 7.4214, 8.0819

## Achromatomaly

8.5792, 8.1679, 24.4169

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.9767, 12.7883, 83.9063 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, 85, 240)` looks like.

```
.text, #text, p{  
    color:rgb(0, 85, 240)  
}
```

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, 85, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 85, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 18.9767, 12.7883, 83.9063 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, 85, 240) }
```



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

```
.border{ border-color:rgb(0, 85, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 85, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 85, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 85, 240);  
box-shadow:4px 4px 4px 4px rgb(0, 85, 240)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.9767, 12.7883, 83.9063 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 85, 240) }
```

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

```
.background{ background-color: rgb(0, 85,  
240) }
```

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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