

# Converting Colors

XYZ(44.6825, 30.8393, 3.5976)

Have a look what the booklet for  
XYZ(44.6825, 30.8393, 3.5976)  
contains.

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# Color

**XYZ(44.6820, 30.8394,  
3.5976)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA6B00
RGB	250, 107, 0
RGB Percent	98%, 42%, 0%
CMY	0.0196, 0.5804, 1.0000
CMYK	0.00, 0.57, 1.00, 0.02
HSL	26°, 100%, 49%
HSV	26°, 100%, 98%
XYZ	44.6820, 30.8394, 3.5976
YIQ	137.5590, 119.5750, -2.9610

# Conversions

## Conversions Part 2

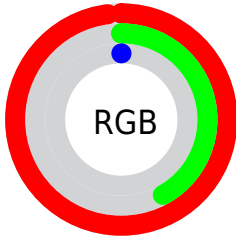
Format	Color
R <sub>Y</sub> B	250, 187, 0
Decimal	16411392
CIE Lab	62.37, 50.97, 70.95
CIE LCh	62, 87.357, 54.306
Yxy	30.8394, 0.5647, 0.3898
Android (android.graphics.Color)	4294601472 (0xFFFA6B00)
YUV	137.5590, -67.8166, 98.6108
Hunter-Lab	55.5332, 46.4378, 35.0323

# Details

The XYZ color **44.6820, 30.8394, 3.5976** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **27.0772, 26.5460, 94.1384**, and the grayscale version is **24.2090, 25.4698, 27.7366**.

A 20% lighter version of the original color is **55.2345, 47.5303, 11.8933**, and **21.2807, 12.8605, 1.3607** is the 20% darker color. If you saturate the color by 10%, you get **44.6822, 30.8403, 3.5978**, and if you desaturate by 10%, it is **46.4744, 34.1439, 5.0611**.

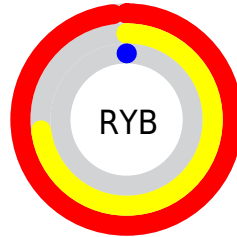
# Distribution



Red (98%)

Green (42%)

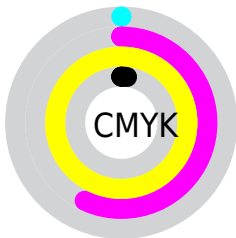
Blue (0%)



Red (98%)

Yellow (73%)

Blue (0%)

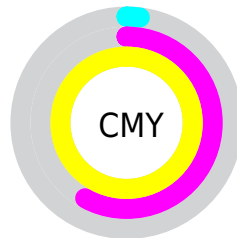


Cyan (0%)

Magenta (57%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (58%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.6820, 30.8394, 3.5976 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 44.6820, 30.8394, 3.5976 by changing the saturation by 10% instead.





 44.6820, 30.8394,  
3.5976


 44.6820, 30.8394,  
3.5976


356.2895,  
305.7978, 143.6418

 31.4072, 20.4766,  
1.4073


 81.4830, 60.9871,  
13.0705

 21.0625, 12.7419,  
0.1474


 105.7400, 81.5408,  
21.1902


 13.2824, 7.2511,  
0.0000


 134.3884,  
106.2603, 32.1235

 7.7016, 3.6196,  
0.0000

 167.7936,  
135.5299, 46.2888

 3.9548, 1.4631,  
0.0000

 206.3210,  
169.7341, 64.1048


 1.6766, 0.2626,  
0.0000

 250.3358,


 0.4416, 0.0000,


209.2572, 85.9899


0.0000


 300.2036,  
254.4836, 112.3627


 0.0000, 0.0000,  
0.0000


 44.6820, 30.8394,  
3.5976


 44.6820, 30.8394,  
3.5976


 44.6822, 30.8403,  
3.5978

 46.4744, 34.1439,  
5.0611

 48.7489, 38.0523,  
7.7939

 51.5858, 42.6150,  
12.1645

 55.0370, 47.8690,  
18.3971

 59.1473, 53.8472,  
26.6804

63.9565, 60.5800,  
37.1791

69.5007, 68.0957,  
50.0414

75.8133, 76.4208,  
65.4023

82.9256, 85.5807,  
83.3866

# Harmonies

## Analogous

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



55.3040, 30.8394, 13.2728



44.6820, 30.8394, 3.5976



31.6263, 30.8394, 1.5239

# Triad

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



44.6820, 30.8394, 3.5976



12.0073, 30.8394, 27.5235



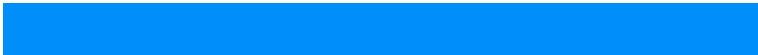
39.7038, 30.8394, 134.7690

# Complementary

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



44.6820, 30.8394, 3.5976



27.0772, 26.5460, 94.1384

# 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.



27.1133, 30.8394, 149.0114



44.6820, 30.8394, 3.5976



13.0882, 30.8394, 68.1519

# Square

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



44.6820, 30.8394, 3.5976



14.4508, 30.8394, 8.1119



17.9454, 30.8394, 119.1015



51.9304, 30.8394, 87.7108



# Rectangle

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



44.6820, 30.8394, 3.5976



24.0441, 30.8394, 1.7504



17.9454, 30.8394, 119.1015



35.2979, 30.8394, 144.4718

# Sweetspot

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



44.6827, 30.8412, 3.5981



72.6811, 71.2042, 52.2963



44.5996, 22.3942, 29.0990



15.0125, 14.5089, 9.9123



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.



44.6827, 30.8412, 3.5981



46.7242, 32.2284, 3.7581



67.4893, 76.4545, 11.2003



17.8555, 18.4468, 18.0819



23.8371, 16.6309, 1.9537



2.3105, 1.7459, 0.2152

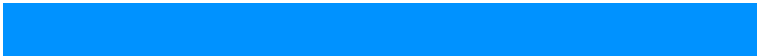


# Inverse Universe

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



27.0772, 26.5460, 94.1384



28.3064, 27.7328, 98.4688



17.5205, 7.4326, 90.9528



17.1073, 18.2914, 22.0142



14.5082, 14.3719, 49.9829



1.4489, 1.5414, 4.6643



# Previews

## White Background



This preview shows how the XYZ color 44.6820, 30.8394, 3.5976 looks on a white 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



# Black Background



This preview shows how the XYZ color 44.6820, 30.8394, 3.5976 looks on a black 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

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

**XYZ 44.6820, 30.8394, 3.5976**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.6820, 30.8394, 3.5976.



This preview shows how white text looks on a background with the XYZ color 44.6820, 30.8394,



# 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

44.6820, 30.8394, 3.5976

### Protanopia

27.9707, 31.0685, 5.3868

### Tritanopia

47.6667, 31.0376, 17.1142

# Trichromacy



## Original Color

44.6820, 30.8394, 3.5976

## Protanomaly

32.4436, 29.7849, 4.4910

## Tritanomaly

46.0083, 30.8012, 8.8305

# Monochromacy



## Original Color

44.6820, 30.8394, 3.5976

## Achromatopsia

24.1572, 25.4152, 27.6772

## Achromatomaly

27.9412, 25.4670, 12.6755

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.6820, 30.8394, 3.5976 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(250, 107, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 107, 0)  
}
```

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(250, 107, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 107, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 44.6820, 30.8394, 3.5976 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(250, 107, 0) }
```

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

```
.border{ border-color:rgb(250, 107, 0) }
```

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

Here you see how a box with a 4 pixel rgb(250, 107, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 107, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 107, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 107,  
0) }
```



# Background

The CSS property to change the background color of an element to XYZ 44.6820, 30.8394, 3.5976 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 107, 0) }
```

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

```
.background{ background-color: rgb(250,  
107, 0) }
```

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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