

# Converting Colors

XYZ(45.5721, 29.9242, 3.3740)

Have a look what the booklet for  
XYZ(45.5721, 29.9242, 3.3740)  
contains.

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# Color

**XYZ(45.6077, 29.9954,  
3.3859)**

# Conversions

## Conversions Part 1

| <b>Format</b> | <b>Color</b>               |
|---------------|----------------------------|
| Hex           | FF6200                     |
| RGB           | 255, 98, 0                 |
| RGB Percent   | 100%, 38%, 0%              |
| CMY           | 0.0000, 0.6156, 1.0000     |
| CMYK          | 0.00, 0.62, 1.00, 0.00     |
| HSL           | 23°, 100%, 50%             |
| HSV           | 23°, 100%, 100%            |
| XYZ           | 45.6077, 29.9954, 3.3859   |
| YIQ           | 133.7710, 125.0300, 2.8060 |

# Conversions

## Conversions Part 2

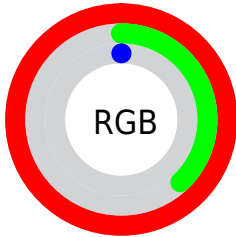
| Format                              | Color                           |
|-------------------------------------|---------------------------------|
| <a href="#">RYB</a>                 | 255, 159, 0                     |
| Decimal                             | 16736768                        |
| CIELab                              | 61.65, 56.74, 70.99             |
| CIElCh                              | 62, 90.880, 51.362              |
| Yxy                                 | 29.9954, 0.5774,<br>0.3797      |
| Android<br>(android.graphics.Color) | 4294926848<br>(0xFFFF6200)      |
| YUV                                 | 133.7710, -65.9491,<br>106.3178 |
| Hunter-Lab                          | 54.7681, 52.8005,<br>34.6722    |

# Details

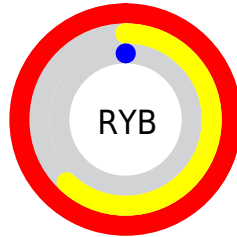
The XYZ color **45.6077, 29.9954, 3.3859** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **30.1060, 31.3322, 99.0679**, and the grayscale version is **22.7798, 23.9662, 26.0991**.

A 20% lighter version of the original color is **53.8390, 44.7886, 11.2763**, and **21.7451, 12.3364, 1.2351** is the 20% darker color. If you saturate the color by 10%, you get **45.6080, 29.9964, 3.3861**, and if you desaturate by 10%, it is **47.4052, 33.3014, 4.8779**.

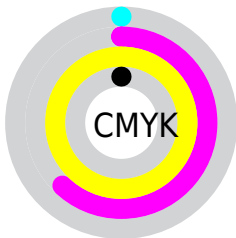
# Distribution



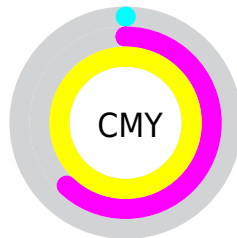
- Red (100%)
- Green (38%)
- Blue (0%)



- Red (100%)
- Yellow (62%)
- Blue (0%)



- Cyan (0%)
- Magenta (62%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (62%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.6077, 29.9954, 3.3859 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 45.6077, 29.9954, 3.3859 by changing the saturation by 10% instead.





 45.6077, 29.9954,  
3.3859


 45.6077, 29.9954,  
3.3859


359.9716,  
301.8830, 141.1333


 32.1397, 19.8351,  
1.2949


 82.8630, 59.6549,  
12.5667

 21.6243, 12.2752,  
0.0576


 107.3811, 79.9229,  
20.4935

 13.6961, 6.9314,  
0.0000


 136.3131,  
104.3289, 31.2028

 7.9899, 3.4192,  
0.0000

 170.0246,  
133.2573, 45.1129

 4.1402, 1.3543,  
0.0000

 208.8809,  
167.0925, 62.6425


 1.7818, 0.1827,  
0.0000

 253.2472,


 0.5067, 0.0000,


206.2190, 84.2101


0.0000


 303.4890,  
251.0210, 110.2342


 0.0000, 0.0000,  
0.0000


 45.6077, 29.9954,  
3.3859


 45.6077, 29.9954,  
3.3859


 45.6080, 29.9964,  
3.3861

 47.4052, 33.3014,  
4.8779

 49.7416, 37.3073,  
7.7120

 52.7037, 42.0725,  
12.2731

 56.3494, 47.6417,  
18.7977

 60.7283, 54.0550,  
27.4848

65.8847, 61.3496,  
38.5085

71.8591, 69.5600,  
52.0251

78.6888, 78.7186,  
68.1769

86.4086, 88.8561,  
87.0959

# Harmonies

## Analogous

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



56.0677, 29.9954, 13.9296



45.6077, 29.9954, 3.3859



32.1418, 29.9954, 1.1618

# Triad

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



45.6077, 29.9954, 3.3859



11.1617, 29.9954, 23.6546



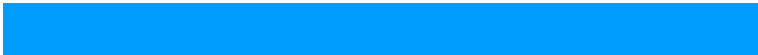
37.8334, 29.9954, 142.0097

# Complementary

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



45.6077, 29.9954, 3.3859



30.1060, 31.3322, 99.0679

# 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.



25.1621, 29.9954, 152.4175



45.6077, 29.9954, 3.3859



11.8899, 29.9954, 63.3713

# Square

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



45.6077, 29.9954, 3.3859



13.9451, 29.9954, 6.2463



16.3286, 29.9954, 117.0264



50.7691, 29.9954, 94.2773



# Rectangle

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



45.6077, 29.9954, 3.3859



24.1749, 29.9954, 1.2222



16.3286, 29.9954, 117.0264



33.3341, 29.9954, 150.8892

# Sweetspot

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



45.6083, 29.9971, 3.3864



71.8582, 69.5585, 52.0220



47.3471, 23.7029, 34.0907



14.8196, 14.1231, 9.8480



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.



45.6083, 29.9971, 3.3864



45.6083, 29.9967, 3.3861



68.2325, 75.2455, 10.9278



18.5817, 19.1316, 18.8577



23.9647, 15.9406, 1.8138

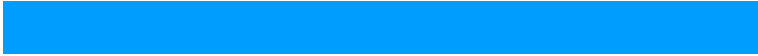


2.4352, 1.7558, 0.2105



# Inverse Universe

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



30.1060, 31.3322, 99.0679



30.1058, 31.3316, 99.0686



18.5080, 8.1362, 95.2019



17.9342, 19.2401, 23.0184



15.8799, 16.6694, 51.8151



1.6520, 1.8347, 5.0803



# Previews

## White Background



This preview shows how the XYZ color 45.6077, 29.9954, 3.3859 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

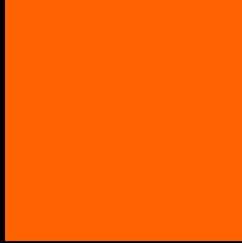
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.6077, 29.9954, 3.3859 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 45.6077, 29.9954, 3.3859**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.6077, 29.9954, 3.3859.



This preview shows how white text looks on a background with the XYZ color 45.6077, 29.9954,



# 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

45.6077, 29.9954, 3.3859

### Protanopia

27.2303, 30.2077, 5.3152

### Deuteranopia

30.4120, 30.0374, 4.1949



## Tritanopia

47.3590, 29.9705, 14.8441

# Trichromacy



## Original Color

45.6077, 29.9954, 3.3859

## Protanomaly

32.0292, 28.5494, 4.3127

## Deuteranomaly

34.6122, 28.9188, 3.7576

## Tritanomaly

46.2017, 29.7922, 7.8728

# Monochromacy



## Original Color

45.6077, 29.9954, 3.3859

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

26.8372, 23.7956, 11.7729

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.6077, 29.9954, 3.3859 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(255, 98, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 98, 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(255, 98, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 98, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 45.6077, 29.9954, 3.3859 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(255, 98, 0) }
```



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

```
.border{ border-color:rgb(255, 98, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 98, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 98, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 98, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 98, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 45.6077, 29.9954, 3.3859 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 98, 0) }
```

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

```
.background{ background-color: rgb(255, 98,  
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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