

# Converting Colors

XYZ(45.4156, 29.6112, 3.3219)

Have a look what the booklet for  
XYZ(45.4156, 29.6112, 3.3219)  
contains.

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# Color

**XYZ(45.4229, 29.6257,  
3.3243)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF6000
RGB	255, 96, 0
RGB Percent	100%, 38%, 0%
CMY	0.0000, 0.6235, 1.0000
CMYK	0.00, 0.62, 1.00, 0.00
HSL	23°, 100%, 50%
HSV	23°, 100%, 100%
XYZ	45.4229, 29.6257, 3.3243
YIQ	132.5970, 125.5800, 3.8520

# Conversions

## Conversions Part 2

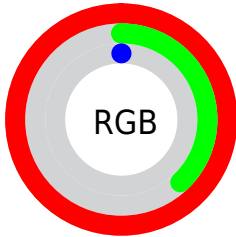
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 154, 0
Decimal	16736256
CIE Lab	61.33, 57.60, 70.82
CIE LCh	61, 91.283, 50.879
Yxy	29.6257, 0.5796, 0.3780
Android (android.graphics.Color)	4294926336 (0xFFFF6000)
YUV	132.5970, -65.3703, 107.3474
Hunter-Lab	54.4295, 53.7115, 34.4795

# Details

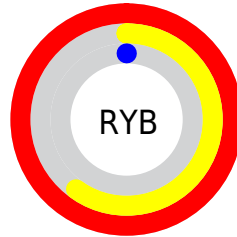
The XYZ color **45.4229, 29.6257, 3.3243** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **30.4474, 32.0148, 99.1818**, and the grayscale version is **22.3473, 23.5111, 25.6036**.

A 20% lighter version of the original color is **53.4814, 44.1217, 11.0078**, and **21.6171, 12.0806, 1.1924** is the 20% darker color. If you saturate the color by 10%, you get **45.4231, 29.6267, 3.3245**, and if you desaturate by 10%, it is **47.2049, 32.9006, 4.8111**.

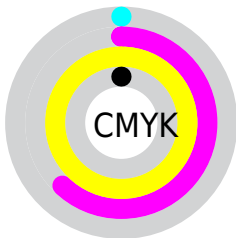
# Distribution



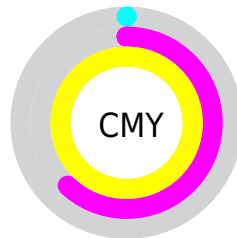
- Red (100%)
- Green (38%)
- Blue (0%)



- Red (100%)
- Yellow (60%)
- 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 45.4229, 29.6257, 3.3243 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 45.4229, 29.6257, 3.3243 by changing the saturation by 10% instead.





 45.4229, 29.6257,  
3.3243


 45.4229, 29.6257,  
3.3243


359.2386,  
300.1558, 140.3896


 31.9934, 19.5547,  
1.2625


 82.5878, 59.0697,  
12.4187

 21.5119, 12.0717,  
0.0308


 107.0539, 79.2115,  
20.2884

 13.6133, 6.7926,  
0.0000


 135.9295,  
103.4790, 30.9311

 7.9321, 3.3327,  
0.0000

 169.5801,  
132.2566, 44.7655

 4.1030, 1.3078,  
0.0000

 208.3709,  
165.9287, 62.2100


 1.7606, 0.1472,  
0.0000

 252.6674,


 0.4937, 0.0000,


204.8797, 83.6831


0.0000


 302.8348,  
249.4939, 109.6035


 0.0000, 0.0000,  
0.0000


 45.4229, 29.6257,  
3.3243


 45.4229, 29.6257,  
3.3243


 45.4231, 29.6267,  
3.3245

 47.2049, 32.9006,  
4.8111

 49.5316, 36.8874,  
7.6421

 52.4910, 41.6469,  
12.2022

 56.1411, 47.2249,  
18.7284

 60.5323, 53.6629,  
27.4196

65.7095, 60.9989,  
38.4503

71.7134, 69.2683,  
51.9768

78.5819, 78.5045,  
68.1416

86.3503, 88.7392,  
87.0768

# Harmonies

## Analogous

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



55.7763, 29.6257, 13.9376



45.4229, 29.6257, 3.3243



31.9872, 29.6257, 1.0972

# Triad

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



45.4229, 29.6257, 3.3243



10.9362, 29.6257, 22.8529



37.2341, 29.6257, 142.2061

# Complementary

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



45.4229, 29.6257, 3.3243



30.4474, 32.0148, 99.1818

# 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.



24.6479, 29.6257, 151.8610



45.4229, 29.6257, 3.3243



11.6022, 29.6257, 62.1003

# Square

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



45.4229, 29.6257, 3.3243



13.7536, 29.6257, 5.9115



15.9384, 29.6257, 115.7954



50.1896, 29.6257, 94.7217



# Rectangle

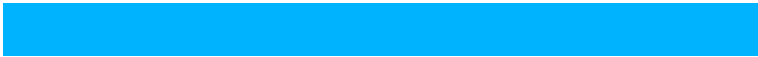
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.4229, 29.6257, 3.3243



24.0140, 29.6257, 1.1347



15.9384, 29.6257, 115.7954



32.7541, 29.6257, 150.8720

# Sweetspot

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



45.4235, 29.6274, 3.3248



71.7122, 69.2665, 51.9733



47.7172, 23.8510, 36.0395



14.7854, 14.0548, 9.8366



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.



45.4235, 29.6274, 3.3248



45.4234, 29.6269, 3.3245



67.0963, 72.9729, 10.5490



18.5697, 19.1076, 18.8537



23.8665, 15.7441, 1.7810



2.4248, 1.7350, 0.2071

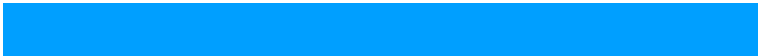


# Inverse Universe

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



30.4474, 32.0148, 99.1818



30.4471, 32.0142, 99.1824



18.6221, 8.3644, 95.2401



17.9466, 19.2648, 23.0225



16.0576, 17.0247, 51.8744



1.6687, 1.8680, 5.0859



# Previews

## White Background



This preview shows how the XYZ color 45.4229, 29.6257, 3.3243 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

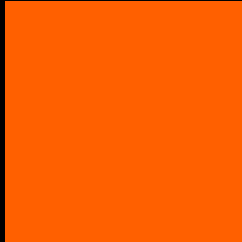
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.4229, 29.6257, 3.3243 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 × Fail

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

**XYZ 45.4229, 29.6257, 3.3243**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.4229, 29.6257, 3.3243.



This preview shows how white text looks on a background with the XYZ color 45.4229, 29.6257,



# 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

45.4229, 29.6257, 3.3243

### Protanopia

26.8702, 29.7850, 5.3101

### Deuteranopia

30.0184, 29.6145, 4.1340



## Tritanopia

47.0924, 29.5867, 14.2951

# Trichromacy



## Original Color

45.4229, 29.6257, 3.3243

## Protanomaly

31.6370, 28.1478, 4.2959

## Deuteranomaly

34.4850, 28.6643, 3.7152

## Tritanomaly

45.9967, 29.4256, 7.6703

# Monochromacy



## Original Color

45.4229, 29.6257, 3.3243

## Achromatopsia

22.2940, 23.4551, 25.5426

## Achromatomaly

26.4876, 23.4359, 11.7219

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.4229, 29.6257, 3.3243 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, 96, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 96, 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, 96, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 96, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 45.4229, 29.6257, 3.3243 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, 96, 0) }
```



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

```
.border{ border-color:rgb(255, 96, 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, 96, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 96, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 96, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 96, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 45.4229, 29.6257, 3.3243 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 96, 0) }
```

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

```
.background{ background-color: rgb(255, 96,  
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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