

# Converting Colors

XYZ(45.7211, 30.2083, 3.4200)

Have a look what the booklet for  
XYZ(45.7211, 30.2083, 3.4200)  
contains.

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# **Color**

**XYZ(45.7018, 30.1837,  
3.4173)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF6300
RGB	255, 99, 0
RGB Percent	100%, 39%, 0%
CMY	0.0000, 0.6117, 1.0000
CMYK	0.00, 0.61, 1.00, 0.00
HSL	23°, 100%, 50%
HSV	23°, 100%, 100%
XYZ	45.7018, 30.1837, 3.4173
YIQ	134.3580, 124.7550, 2.2830

# Conversions

## Conversions Part 2

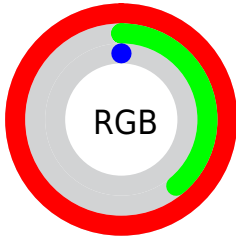
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 162, 0
Decimal	16737024
CIE Lab	61.81, 56.32, 71.07
CIE LCh	62, 90.679, 51.608
Yxy	30.1837, 0.5763, 0.3806
Android (android.graphics.Color)	4294927104 (0xFFFF6300)
YUV	134.3580, -66.2385, 105.8030
Hunter-Lab	54.9397, 52.3415, 34.7699

# Details

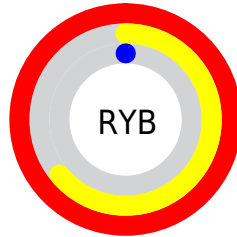
The XYZ color **45.7018, 30.1837, 3.4173** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **29.9376, 30.9953, 99.0116**, and the grayscale version is **22.9979, 24.1955, 26.3490**.

A 20% lighter version of the original color is **54.0047, 45.1200, 11.3315**, and **22.0281, 12.5330, 1.2581** is the 20% darker color. If you saturate the color by 10%, you get **45.7020, 30.1847, 3.4175**, and if you desaturate by 10%, it is **47.5069, 33.5048, 4.9118**.

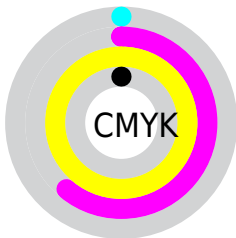
# Distribution



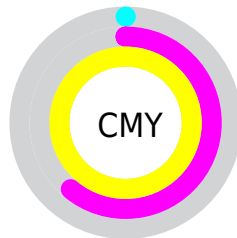
- Red (100%)
- Green (39%)
- Blue (0%)



- Red (100%)
- Yellow (64%)
- Blue (0%)



- Cyan (0%)
- Magenta (61%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (61%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.7018, 30.1837, 3.4173 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 45.7018, 30.1837, 3.4173 by changing the saturation by 10% instead.





 45.7018, 30.1837,  
3.4173


 45.7018, 30.1837,  
3.4173

360.3446,  
302.7598, 141.5100


 32.2142, 19.9781,  
1.3115


 83.0031, 59.9526,  
12.6419

 21.6815, 12.3791,  
0.0712


 107.5476, 80.2846,  
20.5977

 13.7383, 7.0024,  
0.0000


 136.5084,  
104.7609, 31.3406

 8.0194, 3.4636,  
0.0000

 170.2508,  
133.7658, 45.2891

 4.1593, 1.3783,  
0.0000

 209.1403,  
167.6837, 62.8617


 1.7926, 0.2006,  
0.0000

 253.5422,


 0.5132, 0.0000,


206.8991, 84.4771


0.0000


 303.8218,  
251.7963, 110.5536

 0.0000, 0.0000,  
0.0000


 45.7018, 30.1837,  
3.4173


 45.7018, 30.1837,  
3.4173


 45.7020, 30.1847,  
3.4175

 47.5069, 33.5048,  
4.9118

 49.8477, 37.5198,  
7.7475

 52.8111, 42.2873,  
12.3090

 56.4544, 47.8516,  
18.8328

 60.8269, 54.2522,  
27.5178

65.9728, 61.5258,  
38.5381

71.9323, 69.7064,  
52.0497

78.7425, 78.8259,  
68.1951

86.4380, 88.9149,  
87.1060

# Harmonies

## Analogous

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



56.2160, 30.1837, 13.9256



45.7018, 30.1837, 3.4173



32.2204, 30.1837, 1.1954

# Triad

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



45.7018, 30.1837, 3.4173



11.2769, 30.1837, 24.0670



38.1392, 30.1837, 141.9125

# Complementary

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



45.7018, 30.1837, 3.4173



29.9376, 30.9953, 99.0116

# 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.



25.4250, 30.1837, 152.7015



45.7018, 30.1837, 3.4173



12.0372, 30.1837, 64.0211

# Square

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



45.7018, 30.1837, 3.4173



14.0426, 30.1837, 6.4202



16.5284, 30.1837, 117.6535



51.0642, 30.1837, 94.0545



# Rectangle

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



45.7018, 30.1837, 3.4173



24.2567, 30.1837, 1.2681



16.5284, 30.1837, 117.6535



33.6302, 30.1837, 150.9001

# Sweetspot

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



45.7024, 30.1854, 3.4178



71.9314, 69.7048, 52.0464



47.3470, 23.7029, 34.0908



14.8367, 14.1573, 9.8537



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.



45.7024, 30.1854, 3.4178



45.7025, 30.1850, 3.4175



68.2324, 75.2454, 10.9278



18.5877, 19.1435, 18.8597



24.0146, 16.0405, 1.8304



2.4405, 1.7663, 0.2123

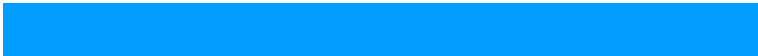


# Inverse Universe

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



29.9376, 30.9953, 99.0116



29.9373, 30.9947, 99.0124



18.5080, 8.1362, 95.2018



17.9281, 19.2277, 23.0164



15.7922, 16.4940, 51.7859



1.6438, 1.8183, 5.0776



# Previews

## White Background



This preview shows how the XYZ color 45.7018, 30.1837, 3.4173 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 45.7018, 30.1837, 3.4173 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 45.7018, 30.1837, 3.4173**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.7018, 30.1837, 3.4173.



This preview shows how white text looks on a background with the XYZ color 45.7018, 30.1837,



# 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

45.7018, 30.1837, 3.4173

### Protanopia

27.4440, 30.3179, 5.3252

### Deuteranopia

30.6593, 30.1648, 4.2065



## Tritanopia

47.4948, 30.1663, 15.1238

# Trichromacy



## Original Color

45.7018, 30.1837, 3.4173

## Protanomaly

32.0292, 28.5494, 4.3127

## Deuteranomaly

34.9014, 29.0678, 3.7711

## Tritanomaly

46.3201, 29.9846, 8.0489

# Monochromacy



## Original Color

45.7018, 30.1837, 3.4173

## 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 45.7018, 30.1837, 3.4173 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, 99, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 99, 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, 99, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 99, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 45.7018, 30.1837, 3.4173 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, 99, 0) }
```



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

```
.border{ border-color:rgb(255, 99, 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, 99, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 99, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 99, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 99, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 45.7018, 30.1837, 3.4173 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 99, 0) }
```

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

```
.background{ background-color: rgb(255, 99,  
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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