

# Converting Colors

XYZ(41.8055, 30.7680, 3.7354)

Have a look what the booklet for  
XYZ(41.8055, 30.7680, 3.7354)  
contains.

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# Color

**XYZ(41.8420, 30.8415,  
3.7477)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | EF7400                       |
| RGB         | 239, 116, 0                  |
| RGB Percent | 94%, 45%, 0%                 |
| CMY         | 0.0627, 0.5451, 1.0000       |
| CMYK        | 0.00, 0.51, 1.00, 0.06       |
| HSL         | 29°, 100%, 47%               |
| HSV         | 29°, 100%, 94%               |
| XYZ         | 41.8420, 30.8415, 3.7477     |
| YIQ         | 139.5530, 110.5440, -10.0000 |

# Conversions

## Conversions Part 2

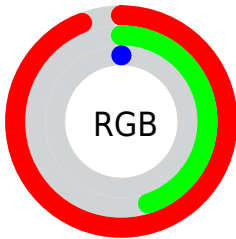
| Format                              | Color                          |
|-------------------------------------|--------------------------------|
| <b>R<sub>YB</sub></b>               | 239, 225, 0                    |
| Decimal                             | 15692800                       |
| CIE <sub>Lab</sub>                  | 62.37, 42.54, 70.07            |
| CIE <sub>LCh</sub>                  | 62, 81.973, 58.736             |
| Yxy                                 | 30.8415, 0.5474,<br>0.4035     |
| Android<br>(android.graphics.Color) | 4293882880<br>(0xFFEF7400)     |
| YUV                                 | 139.5530, -68.7996,<br>87.2150 |
| Hunter-Lab                          | 55.5351, 37.3013,<br>34.8735   |

# Details

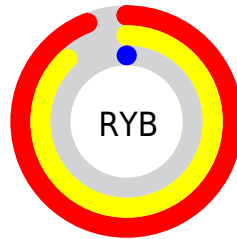
The XYZ color **41.8420, 30.8415, 3.7477** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **22.6629, 20.3978, 84.4034**, and the grayscale version is **24.9834, 26.2845, 28.6238**.

A 20% lighter version of the original color is **56.7202, 50.4516, 12.5430**, and **19.5126, 12.7808, 1.4385** is the 20% darker color. If you saturate the color by 10%, you get **41.8421, 30.8422, 3.7478**, and if you desaturate by 10%, it is **43.5196, 33.9348, 5.1155**.

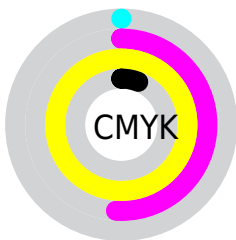
# Distribution



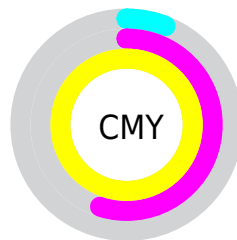
- Red (94%)
- Green (45%)
- Blue (0%)



- Red (94%)
- Yellow (88%)
- Blue (0%)



- Cyan (0%)
- Magenta (51%)
- Yellow (100%)
- Black (6%)




- Cyan (6%)
- Magenta (55%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.8420, 30.8415, 3.7477 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 41.8420, 30.8415, 3.7477 by changing the saturation by 10% instead.





 41.8420, 30.8415,  
3.7477


 41.8420, 30.8415,  
3.7477


344.8303,  
305.8074, 145.3784


 29.1682, 20.4782,  
1.4880


 77.2271, 60.9904,  
13.4236

 19.3530, 12.7431,  
0.2089


 100.6691, 81.5449,  
21.6768

 12.0311, 7.2519,  
0.0000


 128.4312,  
106.2651, 32.7650

 6.8372, 3.6201,  
0.0000

 160.8787,  
135.5356, 47.1066

 3.4059, 1.4634,  
0.0000

 198.3770,  
169.7406, 65.1202


 1.3719, 0.2628,  
0.0000

 241.2915,


 0.2361, 0.0000,


209.2647, 87.2243


0.0000


 289.9875,  
254.4922, 113.8375


 0.0000, 0.0000,  
0.0000


 41.8420, 30.8415,  
3.7477


 41.8420, 30.8415,  
3.7477


 41.8421, 30.8422,  
3.7478

 43.5196, 33.9348,  
5.1155

 45.5929, 37.4965,  
7.6101

 48.1325, 41.5666,  
11.5674

 51.1820, 46.1726,  
17.1866

 54.7789, 51.3391,  
24.6354

■ 58.9565, 57.0887,  
34.0608

■ 63.7450, 63.4422,  
45.5944

■ 69.1722, 70.4194,  
59.3566

■ 75.2640, 78.0387,  
75.4586

# Harmonies

## Analogous

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



52.2890, 30.8415, 11.9352



41.8420, 30.8415, 3.7477



29.7872, 30.8415, 2.0463

# Triad

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



41.8420, 30.8415, 3.7477



12.7367, 30.8415, 32.2509



40.8168, 30.8415, 120.7284

# Complementary

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



41.8420, 30.8415, 3.7477



22.6629, 20.3978, 84.4034

# 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.



28.8457, 30.8415, 139.2289



41.8420, 30.8415, 3.7477



14.3014, 30.8415, 72.3661

# Square

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



41.8420, 30.8415, 3.7477



14.5951, 30.8415, 10.8015



19.5752, 30.8415, 117.5920



51.5996, 30.8415, 76.3324



# Rectangle

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



41.8420, 30.8415, 3.7477



22.9799, 30.8415, 2.5872



19.5752, 30.8415, 117.5920



36.7165, 30.8415, 131.0739

# Sweetspot

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



41.8427, 30.8432, 3.7482



73.7876, 73.4173, 52.6651



39.2021, 19.7930, 20.6534



15.2730, 15.0298, 9.9991



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.



41.8427, 30.8432, 3.7482



48.4189, 35.6177, 4.3230



65.3093, 77.7764, 11.5704



16.4061, 17.0252, 16.5712



23.2534, 17.3048, 2.1146



2.0337, 1.6381, 0.2090



# Inverse Universe

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



22.6629, 20.3978, 84.4034



26.1972, 23.5144, 97.7657



15.6233, 6.3186, 82.0569



15.5700, 16.5741, 20.1001



12.6559, 11.5360, 46.6875



1.1525, 1.1589, 3.9172



# Previews

## White Background



This preview shows how the XYZ color 41.8420, 30.8415, 3.7477 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 41.8420, 30.8415, 3.7477 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 41.8420, 30.8415, 3.7477**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.8420, 30.8415, 3.7477.



This preview shows how white text looks on a background with the XYZ color 41.8420, 30.8415,

3.7477.

# 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

41.8420, 30.8415, 3.7477

### Protanopia

28.1582, 31.1685, 5.2415

### Deuteranopia

31.4591, 31.0229, 4.3299



## Tritanopia

45.0750, 30.8402, 19.7967

# Trichromacy



## Original Color

41.8420, 30.8415, 3.7477

## Protanomaly

32.0702, 30.2301, 4.5255

## Deuteranomaly

34.5375, 30.4601, 4.0591

## Tritanomaly

43.1627, 30.5507, 9.9253

# Monochromacy



## Original Color

41.8420, 30.8415, 3.7477

## Achromatopsia

24.9269, 26.2251, 28.5591

## Achromatomaly

27.8240, 26.1840, 13.0387

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.8420, 30.8415, 3.7477 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(239, 116, 0)` looks like.

```
.text, #text, p{  
    color:rgb(239, 116, 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(239, 116, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 116, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 41.8420, 30.8415, 3.7477 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(239, 116, 0) }
```



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

```
.border{ border-color:rgb(239, 116, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 116, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 116, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 116, 0);  
box-shadow:4px 4px 4px 4px rgb(239, 116,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.8420, 30.8415, 3.7477 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 116, 0) }
```

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

```
.background{ background-color: rgb(239,  
116, 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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