

# Converting Colors

XYZ(40.2070, 28.4939, 3.3825)

Have a look what the booklet for  
XYZ(40.2070, 28.4939, 3.3825)  
contains.

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# Color

**XYZ(40.1827, 28.5199,  
3.3870)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED6B00
RGB	237, 107, 0
RGB Percent	93%, 42%, 0%
CMY	0.0706, 0.5804, 1.0000
CMYK	0.00, 0.55, 1.00, 0.07
HSL	27°, 100%, 46%
HSV	27°, 100%, 93%
XYZ	40.1827, 28.5199, 3.3870
YIQ	133.6720, 111.8270, -5.7170

# Conversions

## Conversions Part 2

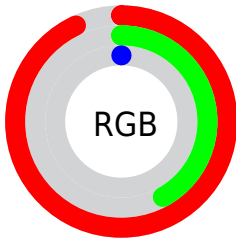
Format	Color
<a href="#">RYB</a>	<a href="#">237, 195, 0</a>
Decimal	<a href="#">15559424</a>
CIELab	<a href="#">60.36, 46.15, 68.75</a>
CIElCh	<a href="#">60, 82.799, 56.130</a>
Yxy	<a href="#">28.5199, 0.5574, 0.3956</a>
Android (android.graphics.Color)	<a href="#">4293749504</a> ( <a href="#">0xFFED6B00</a> )
YUV	<a href="#">133.6720, -65.9003, 90.6187</a>
Hunter-Lab	<a href="#">53.4040, 40.8514, 33.6225</a>

# Details

The XYZ color **40.1827, 28.5199, 3.3870** 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 **23.2681, 22.0787, 83.1552**, and the grayscale version is **22.7462, 23.9308, 26.0606**.

A 20% lighter version of the original color is **55.0283, 47.1671, 11.6727**, and **18.5527, 11.5226, 1.2462** is the 20% darker color. If you saturate the color by 10%, you get **40.1830, 28.5208, 3.3872**, and if you desaturate by 10%, it is **41.8039, 31.5039, 4.7257**.

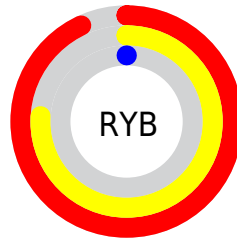
# Distribution



Red (93%)

Green (42%)

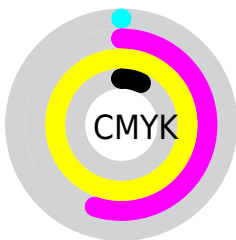
Blue (0%)



Red (93%)

Yellow (76%)

Blue (0%)

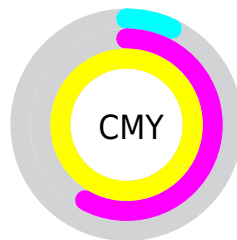


Cyan (0%)

Magenta (55%)

Yellow (100%)

Black (7%)



Cyan (7%)

Magenta (58%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.1827, 28.5199, 3.3870 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 40.1827, 28.5199, 3.3870 by changing the saturation by 10% instead.





 40.1827, 28.5199,  
3.3870


 40.1827, 28.5199,  
3.3870


338.0143,  
294.9429, 141.1466


 27.8659, 18.7179,  
1.2955


 74.7242, 57.3134,  
12.5693

 18.3645, 11.4666,  
0.0581


 97.6796, 77.0738,  
20.4972


 11.3133, 6.3816,  
0.0000


 124.9119,  
100.9224, 31.2076

 6.3468, 3.0785,  
0.0000

 156.7864,  
129.2436, 45.1191

 3.0997, 1.1729,  
0.0000

 193.6686,  
162.4219, 62.6502


 1.2067, 0.0394,  
0.0000


 235.9237,


 0.1117, 0.0000,


200.8416, 84.2194


0.0000


 283.9171,  
244.8872, 110.2454


 0.0000, 0.0000,  
0.0000


 40.1827, 28.5199,  
3.3870


 40.1827, 28.5199,  
3.3870


 40.1830, 28.5208,  
3.3872

 41.8039, 31.5039,  
4.7257

 43.8345, 34.9899,  
7.1758

 46.3453, 39.0204,  
11.0680

 49.3806, 43.6253,  
16.5980

 52.9784, 48.8315,  
23.9305

■ 57.1726, 54.6634,  
33.2098

■ 61.9940, 61.1441,  
44.5653

■ 67.4710, 68.2950,  
58.1153

■ 73.6301, 76.1368,  
73.9690

# Harmonies

## Analogous

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



49.9362, 28.5199, 11.7367



40.1827, 28.5199, 3.3870



28.5119, 28.5199, 1.6049

# Triad

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



40.1827, 28.5199, 3.3870



11.3901, 28.5199, 27.2638



37.1525, 28.5199, 118.9523

# Complementary

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



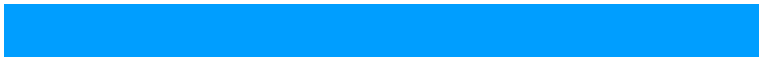
40.1827, 28.5199, 3.3870



23.2681, 22.0787, 83.1552

# 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.



25.7496, 28.5199, 133.8684



40.1827, 28.5199, 3.3870



12.5758, 28.5199, 64.6649

# Square

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



40.1827, 28.5199, 3.3870



13.4217, 28.5199, 8.5075



17.2292, 28.5199, 109.5300



47.8896, 28.5199, 76.4913



# Rectangle

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



40.1827, 28.5199, 3.3870



21.8116, 28.5199, 1.9257



17.2292, 28.5199, 109.5300



33.1974, 28.5199, 128.1953

# Sweetspot

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



40.1833, 28.5215, 3.3875



73.1305, 72.1030, 52.4461



38.9777, 19.6257, 22.9770



15.1181, 14.7202, 9.9475



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.



40.1833, 28.5215, 3.3875



47.3859, 33.5517, 3.9786



61.8904, 71.9356, 10.6232



15.6255, 16.1741, 15.8171



22.0658, 15.8259, 1.8917



1.8276, 1.4325, 0.1802



# Inverse Universe

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



23.2681, 22.0787, 83.1552



27.4087, 25.9374, 98.1696



15.4157, 6.3739, 80.5378



14.9160, 15.9185, 19.2087



12.8365, 12.3200, 45.4444



1.1039, 1.1592, 3.6004



# Previews

## White Background



This preview shows how the XYZ color 40.1827, 28.5199, 3.3870 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 40.1827, 28.5199, 3.3870 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 40.1827, 28.5199, 3.3870**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.1827, 28.5199, 3.3870.



This preview shows how white text looks on a background with the XYZ color 40.1827, 28.5199,



# 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

40.1827, 28.5199, 3.3870

### Protanopia

25.9408, 28.6150, 4.9151

### Deuteranopia

28.9998, 28.6556, 4.0026



## Tritanopia

43.0939, 28.6802, 16.9002

# Trichromacy



## Original Color

40.1827, 28.5199, 3.3870

## Protanomaly

29.8164, 27.6106, 4.1733

## Deuteranomaly

32.2180, 27.8753, 3.6824

## Tritanomaly

41.4600, 28.4565, 8.6177

# Monochromacy



## Original Color

40.1827, 28.5199, 3.3870

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

25.6419, 23.7291, 11.8230

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.1827, 28.5199, 3.3870 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(237, 107, 0)` looks like.

```
.text, #text, p{  
    color:rgb(237, 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(237, 107, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 107, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 40.1827, 28.5199, 3.3870 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(237, 107, 0) }
```



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

```
.border{ border-color:rgb(237, 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(237, 107, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 107, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 107, 0);  
box-shadow:4px 4px 4px 4px rgb(237, 107,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.1827, 28.5199, 3.3870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 107, 0) }
```

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

```
.background{ background-color: rgb(237,  
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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