

# Converting Colors

XYZ(39.8567, 27.7935, 3.2640)

Have a look what the booklet for  
XYZ(39.8567, 27.7935, 3.2640)  
contains.

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# Color

**XYZ(39.7753, 27.7050,  
3.2512)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED6700
RGB	237, 103, 0
RGB Percent	93%, 40%, 0%
CMY	0.0706, 0.5960, 1.0000
CMYK	0.00, 0.57, 1.00, 0.07
HSL	26°, 100%, 46%
HSV	26°, 100%, 93%
XYZ	39.7753, 27.7050, 3.2512
YIQ	131.3240, 112.9270, -3.6250

# Conversions

## Conversions Part 2

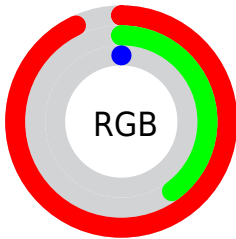
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	237, 182, 0
Decimal	15558400
CIE <sub>Lab</sub>	59.62, 48.04, 68.33
CIE <sub>LCh</sub>	60, 83.529, 54.893
Yxy	27.7050, 0.5623, 0.3917
Android (android.graphics.Color)	4293748480 (0xFFED6700)
YUV	131.3240, -64.7427, 92.6779
Hunter-Lab	52.6355, 42.7756, 33.1826

# Details

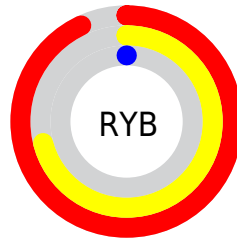
The XYZ color **39.7753, 27.7050, 3.2512** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **23.8107, 23.1637, 83.3362**, and the grayscale version is **21.8869, 23.0268, 25.0762**.

A 20% lighter version of the original color is **54.3101, 45.7792, 11.2840**, and **18.3319, 11.0809, 1.1726** is the 20% darker color. If you saturate the color by 10%, you get **39.7755, 27.7059, 3.2514**, and if you desaturate by 10%, it is **41.3791, 30.6541, 4.5841**.

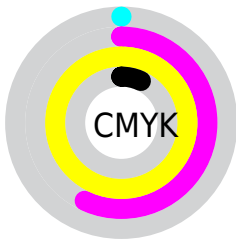
# Distribution



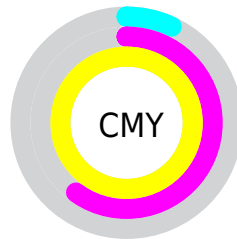
- Red (93%)
- Green (40%)
- Blue (0%)



- Red (93%)
- Yellow (71%)
- Blue (0%)



- Cyan (0%)
- Magenta (57%)
- Yellow (100%)
- Black (7%)




- Cyan (7%)
- Magenta (60%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.7753, 27.7050, 3.2512 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 39.7753, 27.7050, 3.2512 by changing the saturation by 10% instead.





 39.7753, 27.7050,  
3.2512


 39.7753, 27.7050,  
3.2512


336.3263,  
291.0546, 139.4984


 27.5468, 18.1034,  
1.2243


 74.1077, 56.0131,  
12.2422

 18.1230, 11.0242,  
0.0000


 96.9424, 75.4884,  
20.0435


 11.1386, 6.0831,  
0.0000


 124.0432, 99.0238,  
30.6065

 6.2281, 2.8957,  
0.0000

 155.7755,  
127.0035, 44.3500

 3.0262, 1.0775,  
0.0000

 192.5045,  
159.8121, 61.6923


 1.1677, 0.0000,  
0.0000

 234.5958,


 0.0806, 0.0000,


197.8338, 83.0522


0.0000


 282.4146,  
241.4532, 108.8480


 0.0000, 0.0000,  
0.0000


 39.7753, 27.7050,  
3.2512


 39.7753, 27.7050,  
3.2512


 39.7755, 27.7059,  
3.2514

 41.3791, 30.6541,  
4.5841

 43.4031, 34.1269,  
7.0320

 45.9190, 38.1677,  
10.9260

 48.9719, 42.8079,  
16.4619

 52.6007, 48.0760,  
23.8047

■ 56.8398, 53.9978,  
33.0990

■ 61.7209, 60.5978,  
44.4744

■ 67.2729, 67.8987,  
58.0495

■ 73.5229, 75.9222,  
73.9335

# Harmonies

## Analogous

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



49.2955, 27.7050, 11.7510



39.7753, 27.7050, 3.2512



28.1761, 27.7050, 1.4297

# Triad

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



39.7753, 27.7050, 3.2512



10.8777, 27.7050, 25.2942



35.8064, 27.7050, 119.2401

# Complementary

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



39.7753, 27.7050, 3.2512



23.8107, 23.1637, 83.3362

# 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.



24.5716, 27.7050, 132.6013



39.7753, 27.7050, 3.2512



11.9073, 27.7050, 61.7436

# Square

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



39.7753, 27.7050, 3.2512



13.0007, 27.7050, 7.5991



16.3219, 27.7050, 106.7986



46.6089, 27.7050, 77.3027



# Rectangle

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



39.7753, 27.7050, 3.2512



21.4648, 27.7050, 1.6667



16.3219, 27.7050, 106.7986



31.8862, 27.7050, 128.0454

# Sweetspot

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



39.7759, 27.7066, 3.2517



72.8069, 71.4558, 52.3382



39.2490, 19.7342, 24.4053



15.0420, 14.5680, 9.9222



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.



39.7759, 27.7066, 3.2517



46.9058, 32.5915, 3.8186



60.8340, 69.8228, 10.2710



15.6040, 16.1310, 15.8099



21.8413, 15.3769, 1.8169



1.8091, 1.3956, 0.1740



# Inverse Universe

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



23.8107, 23.1637, 83.3362



28.0492, 27.2185, 98.3831



15.4684, 6.4793, 80.5555



14.9379, 15.9623, 19.2160



13.1326, 12.9122, 45.5431



1.1266, 1.2047, 3.6080



# Previews

## White Background



This preview shows how the XYZ color 39.7753, 27.7050, 3.2512 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 39.7753, 27.7050, 3.2512 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 39.7753, 27.7050, 3.2512**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.7753, 27.7050, 3.2512.



This preview shows how white text looks on a background with the XYZ color 39.7753, 27.7050,



# 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

39.7753, 27.7050, 3.2512

### Protanopia

25.1705, 27.9901, 4.8351

### Deuteranopia

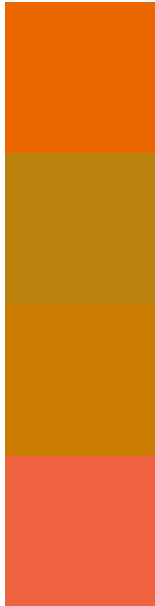
28.2371, 27.8364, 3.8847



## Tritanopia

42.5163, 27.8503, 15.7052

# Trichromacy



## Original Color

39.7753, 27.7050, 3.2512

## Protanomaly

29.0482, 26.8158, 4.0604

## Deuteranomaly

31.6907, 27.2238, 3.5844

## Tritanomaly

41.0126, 27.6561, 8.1776

# Monochromacy



## Original Color

39.7753, 27.7050, 3.2512

## Achromatopsia

21.5731, 22.6966, 24.7166

## Achromatomaly

24.9763, 22.8453, 11.2768

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.7753, 27.7050, 3.2512 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, 103, 0)` looks like.

```
.text, #text, p{  
    color:rgb(237, 103, 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, 103, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 103, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 39.7753, 27.7050, 3.2512 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, 103, 0) }
```



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

```
.border{ border-color:rgb(237, 103, 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, 103, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 103, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 103, 0);  
box-shadow:4px 4px 4px 4px rgb(237, 103,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.7753, 27.7050, 3.2512 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 103, 0) }
```

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

```
.background{ background-color: rgb(237,  
103, 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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