

# Converting Colors

XYZ(42.2529, 33.5506, 1.5388)

Have a look what the booklet for  
XYZ(42.2529, 33.5506, 1.5388)  
contains.

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# Color

**XYZ(42.7753, 33.7050,  
4.2512)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED8100
RGB	237, 129, 0
RGB Percent	93%, 51%, 0%
CMY	0.0706, 0.4941, 1.0000
CMYK	0.00, 0.46, 1.00, 0.07
HSL	33°, 100%, 46%
HSV	33°, 100%, 93%
XYZ	42.7753, 33.7050, 4.2512
YIQ	146.5860, 105.7770, -17.2230

# Conversions

## Conversions Part 2

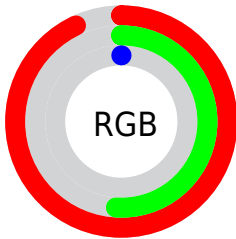
Format	Color
<a href="#">RYB</a>	<a href="#">198, 237, 0</a>
Decimal	<a href="#">15565056</a>
CIELab	<a href="#">64.73, 35.20, 71.34</a>
CIElCh	<a href="#">65, 79.549, 63.735</a>
Yxy	<a href="#">33.7050, 0.5298, 0.4175</a>
Android (android.graphics.Color)	<a href="#">4293755136</a> ( <a href="#">0xFFED8100</a> )
YUV	<a href="#">146.5860, -72.2669, 79.2931</a>
Hunter-Lab	<a href="#">58.0560, 29.9197, 36.2976</a>

# Details

The XYZ color **42.7753, 33.7050, 4.2512** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **20.6488, 16.8398, 82.2822**, and the grayscale version is **27.8218, 29.2707, 31.8758**.

A 20% lighter version of the original color is **59.3432, 55.5949, 13.7340**, and **20.1799, 14.4474, 1.7250** is the 20% darker color. If you saturate the color by 10%, you get **42.7754, 33.7057, 4.2513**, and if you desaturate by 10%, it is **44.4365, 36.7689, 5.6034**.

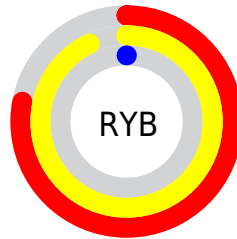
# Distribution



Red (93%)

Green (51%)

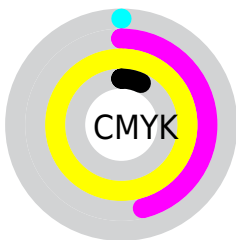
Blue (0%)



Red (78%)

Yellow (93%)

Blue (0%)

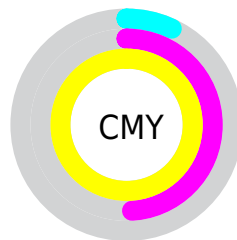


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (7%)



Cyan (7%)

Magenta (49%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7753, 33.7050, 4.2512 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 42.7753, 33.7050, 4.2512 by changing the saturation by 10% instead.





 42.7753, 33.7050,  
4.2512


 42.7753, 33.7050,  
4.2512

348.6241,  
318.8146, 150.9778

 29.9026, 22.6671,  
1.7641


 78.6295, 65.4747,  
14.5851

 19.9124, 14.3479,  
0.4041


 102.3417, 86.9752,  
23.2690


 12.4393, 8.3630,  
0.0000


 130.3978,  
112.7320, 34.8556

 7.1179, 4.3281,  
0.0000

 163.1632,  
143.1295, 49.7634

 3.5829, 1.8587,  
0.0000

 201.0031,  
178.5522, 68.4110


 1.4690, 0.5234,  
0.0000

 244.2830,


 0.3046, 0.0000,


219.3843, 91.2169


0.0000


 293.3682,  
266.0103, 118.5997


 0.0000, 0.0000,  
0.0000


 42.7753, 33.7050,  
4.2512


 42.7753, 33.7050,  
4.2512


 42.7754, 33.7057,  
4.2513

 44.4365, 36.7689,  
5.6034

 46.4495, 40.2197,  
8.0478

 48.8816, 44.0926,  
11.9140

 51.7734, 48.4105,  
17.3964

 55.1597, 53.1937,  
24.6587

■ 59.0714, 58.4605,  
33.8441

■ 63.5362, 64.2279,  
45.0810

■ 68.5798, 70.5120,  
58.4869

■ 74.2260, 77.3278,  
74.1700

# Harmonies

## Analogous

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



54.0012, 33.7050, 11.6722



42.7753, 33.7050, 4.2512



30.6256, 33.7050, 2.9113

# Triad

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



42.7753, 33.7050, 4.2512



14.7323, 33.7050, 40.9522



45.8520, 33.7050, 117.8400

# Complementary

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



42.7753, 33.7050, 4.2512



20.6488, 16.8398, 82.2822

# 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.



33.4882, 33.7050, 142.1079



42.7753, 33.7050, 4.2512



17.0175, 33.7050, 83.9088

# Square

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



42.7753, 33.7050, 4.2512



16.0960, 33.7050, 15.3023



23.2632, 33.7050, 126.9878



56.0538, 33.7050, 72.1811



# Rectangle

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



42.7753, 33.7050, 4.2512



23.9809, 33.7050, 3.9782



23.2632, 33.7050, 126.9878



41.7178, 33.7050, 129.6935

# Sweetspot

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



42.7760, 33.7068, 4.2518



74.9562, 75.7546, 53.0546



37.7724, 19.1436, 16.6293



15.5493, 15.5825, 10.0913



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.



42.7760, 33.7068, 4.2518



50.4438, 39.6677, 4.9979



62.6289, 77.2423, 11.6086



15.7449, 16.4128, 15.8569



23.4870, 18.6682, 2.3654



1.9403, 1.6579, 0.2177



# Inverse Universe

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



20.6488, 16.8398, 82.2822



24.3183, 19.7567, 97.1394



15.3850, 6.1656, 80.4993



14.7966, 15.6797, 19.1689



11.4009, 9.4487, 44.9659



0.9903, 0.9321, 3.5626



# Previews

## White Background



This preview shows how the XYZ color 42.7753, 33.7050, 4.2512 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 42.7753, 33.7050, 4.2512 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 ✓ Pass

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

**XYZ 42.7753, 33.7050, 4.2512**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7753, 33.7050, 4.2512.



This preview shows how white text looks on a background with the XYZ color 42.7753, 33.7050,



# 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

42.7753, 33.7050, 4.2512

### Protanopia

30.7045, 33.9657, 5.5538

### Deuteranopia

34.3006, 33.6370, 4.6848



## Tritanopia

46.8884, 33.6922, 24.4540

# Trichromacy



## Original Color

42.7753, 33.7050, 4.2512

## Protanomaly

34.0533, 33.0361, 4.9296

## Deuteranomaly

37.1136, 33.4921, 4.5085

## Tritanomaly

44.5033, 33.2853, 11.8637

# Monochromacy



## Original Color

42.7753, 33.7050, 4.2512

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

30.2209, 29.2676, 14.6461

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7753, 33.7050, 4.2512 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, 129, 0)` looks like.

```
.text, #text, p{  
    color:rgb(237, 129, 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, 129, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 129, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7753, 33.7050, 4.2512 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, 129, 0) }
```



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

```
.border{ border-color:rgb(237, 129, 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, 129, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 129, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 129, 0);  
box-shadow:4px 4px 4px 4px rgb(237, 129,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7753, 33.7050, 4.2512 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 129, 0) }
```

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

```
.background{ background-color: rgb(237,  
129, 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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