

# Converting Colors

XYZ(42.5638, 31.3399, 6.4226)

Have a look what the booklet for  
XYZ(42.5638, 31.3399, 6.4226)  
contains.

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# Color

**XYZ(42.4510, 31.2706,  
6.3832)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EF752E
RGB	239, 117, 46
RGB Percent	94%, 46%, 18%
CMY	0.0627, 0.5411, 0.8196
CMYK	0.00, 0.51, 0.81, 0.06
HSL	22°, 86%, 56%
HSV	22°, 81%, 94%
XYZ	42.4510, 31.2706, 6.3832
YIQ	145.3840, 95.5030, 3.7830

# Conversions

## Conversions Part 2

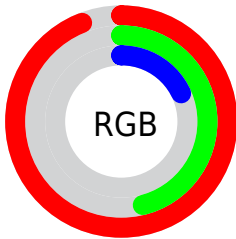
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	239, 158, 46
Decimal	15693102
CIE Lab	62.74, 42.82, 58.06
CIE LCh	63, 72.139, 53.589
Yxy	31.2706, 0.5299, 0.3904
Android (android.graphics.Color)	4293883182 (0xFFEF752E)
YUV	145.3840, -48.9963, 82.1012
Hunter-Lab	55.9201, 37.6456, 32.3762

# Details

The XYZ color **42.4510, 31.2706, 6.3832** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **30.7080, 34.8156, 86.7622**, and the grayscale version is **27.2373, 28.6557, 31.2061**.

A 20% lighter version of the original color is **57.9606, 51.2489, 18.1464**, and **19.7948, 13.0107, 1.4680** is the 20% darker color. If you saturate the color by 10%, you get **40.4838, 27.8922, 4.0143**, and if you desaturate by 10%, it is **44.9655, 35.3253, 10.2267**.

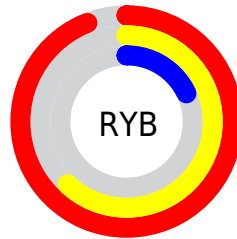
# Distribution



Red (94%)

Green (46%)

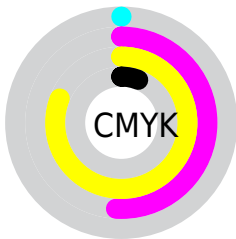
Blue (18%)



Red (94%)

Yellow (62%)

Blue (18%)

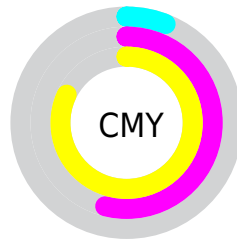


Cyan (0%)

Magenta (51%)

Yellow (81%)

Black (6%)



Cyan (6%)

Magenta (54%)


Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.4510, 31.2706, 6.3832 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 42.4510, 31.2706, 6.3832 by changing the saturation by 10% instead.





 42.4510, 31.2706,  
6.3832


 42.4510, 31.2706,  
6.3832

347.3090,  
307.7830, 171.8671

 29.6472, 20.8050,  
3.0069


 78.1426, 61.6659,  
19.2125


 19.7177, 12.9815,  
1.0982


 101.7612, 82.3643,  
29.5025

 12.2971, 7.4158,  
0.0000


 129.7155,  
107.2425, 42.9343

 7.0200, 3.7235,  
0.0000

 162.3707,  
136.6847, 59.9262

 3.5210, 1.5201,  
0.0000

 200.0924,  
171.0755, 80.8969

 1.4349, 0.3028,  
0.0000

 243.2457,

 0.2809, 0.0000,

210.7993, 106.2650

0.0000

292.1961,  
256.2403, 136.4488

■ 0.0000, 0.0000,  
0.0000

■ 42.4510, 31.2706,  
6.3832

■ 42.4510, 31.2706,  
6.3832

■ 40.4838, 27.8922,  
4.0143

■ 44.9655, 35.3253,  
10.2267


■ 39.0803, 25.3186,  
2.8272


■ 48.0760, 40.0917,  
15.7478


■ 51.8269, 45.6081,  
23.1186


■ 56.2572, 51.9082,  
32.4890

■ 61.4025, 59.0234,  
43.9937

 67.2957, 66.9830,  
57.7553

 73.9674, 75.8151,  
73.8871

 81.4464, 85.5460,  
92.4947

 88.7620, 95.8020,  
108.4211

# Harmonies

## Analogous

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



50.6946, 31.2706, 16.6183



42.4510, 31.2706, 6.3832



31.8886, 31.2706, 3.5784

# Triad

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



42.4510, 31.2706, 6.3832



14.5854, 31.2706, 28.3402



37.9699, 31.2706, 111.9520

# Complementary

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



42.4510, 31.2706, 6.3832



30.7080, 34.8156, 86.7622

# 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.



27.6554, 31.2706, 121.4898



42.4510, 31.2706, 6.3832



15.5161, 31.2706, 60.7171

# Square

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



42.4510, 31.2706, 6.3832



16.9290, 31.2706, 10.9233



19.8314, 31.2706, 99.0783



47.7332, 31.2706, 77.4993



# Rectangle

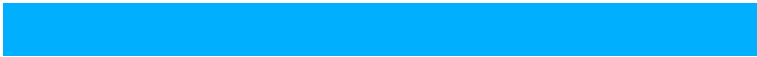
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.4510, 31.2706, 6.3832



25.4872, 31.2706, 3.8477



19.8314, 31.2706, 99.0783



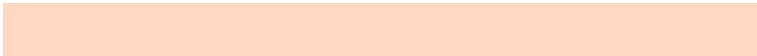
34.4012, 31.2706, 118.7548

# Sweetspot

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



42.4517, 31.2723, 6.3837



75.5921, 74.4200, 61.3016



43.6630, 23.1406, 39.3253



15.6582, 15.2242, 11.9037



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.



42.4517, 31.2723, 6.3837



45.7110, 30.1348, 3.6271



59.9507, 66.2703, 12.2167



16.2490, 16.7112, 16.5189



21.7114, 14.2209, 1.6006



1.8981, 1.3668, 0.1638

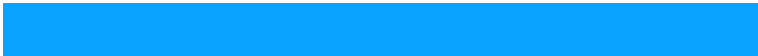


# Inverse Universe

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



30.7080, 34.8156, 86.7622



31.4207, 33.8192, 99.4795



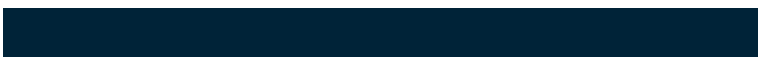
19.0070, 11.4134, 82.8618



15.7301, 16.8943, 20.1535



14.8612, 15.9466, 47.4226



1.3309, 1.5158, 3.9767



# Previews

## White Background



This preview shows how the XYZ color 42.4510, 31.2706, 6.3832 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 42.4510, 31.2706, 6.3832 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 42.4510, 31.2706, 6.3832**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.4510, 31.2706, 6.3832.



This preview shows how white text looks on a background with the XYZ color 42.4510, 31.2706,



# 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

42.4510, 31.2706, 6.3832

### Protanopia

28.4954, 31.2784, 8.1499

### Deuteranopia

32.0299, 31.2804, 6.0186



## Tritanopia

45.4048, 31.3135, 20.4806

# Trichromacy



## Original Color

42.4510, 31.2706, 6.3832

## Protanomaly

32.3581, 30.3153, 7.3948

## Deuteranomaly

35.2026, 30.7587, 6.0891

## Tritanomaly

44.0691, 31.2664, 13.6098

# Monochromacy



## Original Color

42.4510, 31.2706, 6.3832

## Achromatopsia

26.9133, 28.3149, 30.8349

## Achromatomaly

30.0147, 28.0158, 18.2936

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.4510, 31.2706, 6.3832 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, 117, 46)` looks like.

```
.text, #text, p{  
    color:rgb(239, 117, 46)  
}
```

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, 117, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 117, 46) }
```

## Border

The CSS property to change the border of an element to XYZ 42.4510, 31.2706, 6.3832 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, 117, 46) }
```



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

```
.border{ border-color:rgb(239, 117, 46) }
```

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

Here you see how a box with a 4 pixel rgb(239, 117, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 117, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 117, 46);  
box-shadow:4px 4px 4px 4px rgb(239, 117,  
46) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.4510, 31.2706, 6.3832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 117, 46) }
```

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

```
.background{ background-color: rgb(239,  
117, 46) }
```

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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