

# Converting Colors

XYZ(80.8482, 54.1569, 8.4177)

Have a look what the booklet for  
XYZ(80.8482, 54.1569, 8.4177)  
contains.

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# **Color**

**XYZ(50.0454, 38.2022,  
6.9266)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FF852A                      |
| RGB         | 255, 133, 42                |
| RGB Percent | 100%, 52%, 16%              |
| CMY         | 0.0000, 0.4784, 0.8353      |
| CMYK        | 0.00, 0.48, 0.84, 0.00      |
| HSL         | 26°, 100%, 58%              |
| HSV         | 26°, 84%, 100%              |
| XYZ         | 50.0454, 38.2022, 6.9266    |
| YIQ         | 159.1040, 101.9230, -2.4370 |

# Conversions

## Conversions Part 2

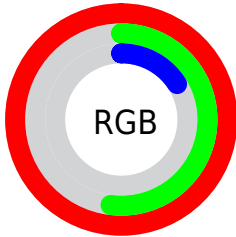
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 255, 201, 42                   |
| Decimal                             | 16745770                       |
| CIE Lab                             | 68.17, 40.95, 65.28            |
| CIE LCh                             | 68, 77.061, 57.900             |
| Yxy                                 | 38.2022, 0.5258,<br>0.4014     |
| Android<br>(android.graphics.Color) | 4294935850<br>(0xFFFF852A)     |
| YUV                                 | 159.1040, -57.7323,<br>84.1008 |
| Hunter-Lab                          | 61.8079, 36.3662,<br>36.6211   |

# Details

The XYZ color **50.0454, 38.2022, 6.9266** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **32.2793, 34.2612, 99.5187**, and the grayscale version is **33.2268, 34.9572, 38.0684**.

A 20% lighter version of the original color is **61.3345, 58.0710, 19.0425**, and **24.4283, 16.9612, 1.9863** is the 20% darker color. If you saturate the color by 10%, you get **47.8630, 34.3508, 4.6179**, and if you desaturate by 10%, it is **52.7972, 42.7297, 10.8547**.

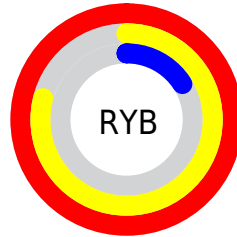
# Distribution



Red (100%)

Green (52%)

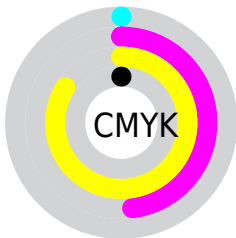
Blue (16%)



Red (100%)

Yellow (79%)

Blue (16%)

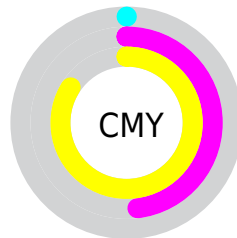


Cyan (0%)

Magenta (48%)

Yellow (84%)

Black (0%)



Cyan (0%)

Magenta (48%)


Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.0454, 38.2022, 6.9266 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 50.0454, 38.2022, 6.9266 by changing the saturation by 10% instead.





 50.0454, 38.2022,  
6.9266


 50.0454, 38.2022,  
6.9266


377.2925,  
338.4866, 176.6601

 35.6674, 26.1397,  
3.3385


 89.4336, 72.4180,  
20.3357

 24.3464, 16.9282,  
1.2700


 115.1744, 95.3400,  
30.9939

 15.7169, 10.1833,  
0.0370


 145.4337,  
122.6506, 44.8457

 9.4136, 5.5206,  
0.0000

 180.5766,  
154.7342, 62.3099

 5.0712, 2.5559,  
0.0000

 220.9686,  
191.9752, 83.8048

 2.3243, 0.9045,  
0.0000

 266.9750,

 0.8070, 0.0000,

234.7580, 109.7492

0.0000

318.9612,  
283.4670, 140.5614

■ 0.0000, 0.0000,  
0.0000

■ 50.0454, 38.2022,  
6.9266

■ 50.0454, 38.2022,  
6.9266

■ 47.8630, 34.3508,  
4.6179

■ 52.7972, 42.7297,  
10.8547

■ 46.7030, 32.1866,  
3.7511

■ 56.1743, 47.9676,  
16.6547

■ 60.2267, 53.9540,  
24.5367

■ 64.9980, 60.7218,  
34.6816

■ 70.5274, 68.3014,  
47.2505

76.8510, 76.7214,  
62.3898

84.0022, 86.0090,  
80.2339

92.0125, 96.1897,  
100.9079

95.0496, 99.9998,  
108.9000

# Harmonies

## Analogous

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



60.8370, 38.2022, 17.6551



50.0454, 38.2022, 6.9266



37.1645, 38.2022, 4.3003

# Triad

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



50.0454, 38.2022, 6.9266



17.7487, 38.2022, 39.2144



48.2485, 38.2022, 131.9403

# Complementary

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



50.0454, 38.2022, 6.9266



32.2793, 34.2612, 99.5187

# 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.



35.4687, 38.2022, 149.1720



50.0454, 38.2022, 6.9266



19.4601, 38.2022, 80.9455

# Square

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



50.0454, 38.2022, 6.9266



20.0249, 38.2022, 15.3847



25.3503, 38.2022, 126.7672



59.6487, 38.2022, 87.6797



# Rectangle

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



50.0454, 38.2022, 6.9266



29.6527, 38.2022, 5.0354



25.3503, 38.2022, 126.7672



43.8959, 38.2022, 141.8832

# Sweetspot

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



50.0462, 38.2043, 6.9273



75.8696, 75.4288, 59.9950



48.9737, 25.6784, 38.5724



15.7529, 15.5003, 11.6679



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.



50.0462, 38.2043, 6.9273



46.7035, 32.1869, 3.7512



72.0141, 82.1399, 14.2499



18.6475, 19.2631, 18.8797



24.5445, 17.1003, 2.0070



2.4955, 1.8764, 0.2307



# Inverse Universe

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



32.2793, 34.2612, 99.5187



28.3364, 27.7928, 98.4788



20.6078, 10.9182, 95.6282



17.8668, 19.1052, 22.9959



14.9576, 14.8247, 51.5077



1.5648, 1.6603, 5.0513



# Previews

## White Background



This preview shows how the XYZ color 50.0454, 38.2022, 6.9266 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 50.0454, 38.2022, 6.9266 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 50.0454, 38.2022, 6.9266**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.0454, 38.2022, 6.9266.



This preview shows how white text looks on a background with the XYZ color 50.0454, 38.2022,



# 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

50.0454, 38.2022, 6.9266

### Protanopia

34.9098, 38.4412, 8.7119

### Deuteranopia

39.0395, 38.2491, 6.5535



## Tritanopia

53.2025, 38.1880, 27.4886

# Trichromacy



## Original Color

50.0454, 38.2022, 6.9266

## Protanomaly

39.4062, 37.6531, 7.9872

## Deuteranomaly

42.4002, 37.7791, 6.5707

## Tritanomaly

51.4392, 37.9001, 16.9162

# Monochromacy



## Original Color

50.0454, 38.2022, 6.9266

## Achromatopsia

32.9542, 34.6704, 37.7561

## Achromatomaly

36.3069, 34.5430, 21.2769

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.0454, 38.2022, 6.9266 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(255, 133, 42)` looks like.

```
.text, #text, p{  
    color:rgb(255, 133, 42)  
}
```

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(255, 133, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 133, 42) }
```

## Border

The CSS property to change the border of an element to XYZ 50.0454, 38.2022, 6.9266 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(255, 133, 42) }
```



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

```
.border{ border-color:rgb(255, 133, 42) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 133, 42)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 133, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 133, 42);  
box-shadow:4px 4px 4px 4px rgb(255, 133,  
42) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.0454, 38.2022, 6.9266 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 133, 42) }
```

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

```
.background{ background-color: rgb(255,  
133, 42) }
```

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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