

# Converting Colors

XYZ(48.9868, 37.6105, 8.9526)

Have a look what the booklet for  
XYZ(48.9868, 37.6105, 8.9526)  
contains.

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# Color

**XYZ(48.9868, 37.6105,  
8.9526)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB853C
RGB	251, 133, 60
RGB Percent	98%, 52%, 24%
CMY	0.0157, 0.4784, 0.7647
CMYK	0.00, 0.47, 0.76, 0.02
HSL	23°, 96%, 61%
HSV	23°, 76%, 98%
XYZ	48.9868, 37.6105, 8.9526
YIQ	159.9600, 93.7610, 2.3130

# Conversions

## Conversions Part 2

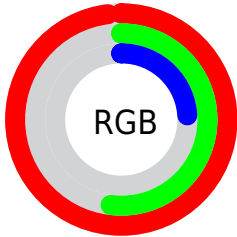
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	251, 178, 60
Decimal	16483644
CIE Lab	67.73, 39.97, 57.40
CIE LCh	68, 69.942, 55.151
Yxy	37.6105, 0.5127, 0.3936
Android (android.graphics.Color)	4294673724 (0xFFFB853C)
YUV	159.9600, -49.2803, 79.8421
Hunter-Lab	61.3274, 35.2584, 34.2740

# Details

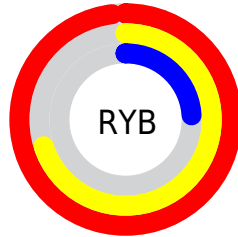
The XYZ color **48.9868, 37.6105, 8.9526** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **35.1952, 39.7640, 97.0864**, and the grayscale version is **33.5860, 35.3351, 38.4799**.

A 20% lighter version of the original color is **62.1478, 58.3963, 23.3253**, and **23.6869, 16.5784, 1.9802** is the 20% darker color. If you saturate the color by 10%, you get **46.5052, 33.4697, 5.5917**, and if you desaturate by 10%, it is **52.0978, 42.5079, 14.0746**.

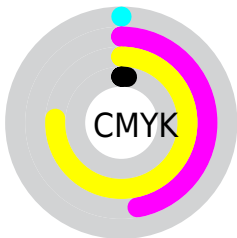
# Distribution



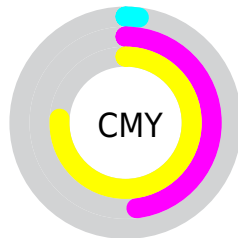
- Red (98%)
- Green (52%)
- Blue (24%)



- Red (98%)
- Yellow (70%)
- Blue (24%)



- Cyan (0%)
- Magenta (47%)
- Yellow (76%)
- Black (2%)




- Cyan (2%)
- Magenta (48%)
- Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9868, 37.6105, 8.9526 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 48.9868, 37.6105, 8.9526 by changing the saturation by 10% instead.





 48.9868, 37.6105,  
8.9526


 48.9868, 37.6105,  
8.9526


373.2082,  
335.9462, 193.2289

 34.8235, 25.6805,  
4.6139


 87.8727, 71.5107,  
24.3821

 23.6928, 16.5848,  
1.9678


 113.3260, 94.2498,  
36.3100


 15.2294, 9.9389,  
0.5354


 143.2733,  
121.3607, 51.6047

 9.0679, 5.3585,  
0.0000

 178.0801,  
153.2278, 70.6847

 4.8430, 2.4591,  
0.0000

 218.1116,  
190.2355, 93.9686

 2.1892, 0.8560,  
0.0000

 263.7332,

 0.7371, 0.0000,

232.7682, 121.8749

0.0000

315.3103,  
281.2103, 154.8222

■ 0.0000, 0.0000,  
0.0000

■ 48.9868, 37.6105,  
8.9526

■ 48.9868, 37.6105,  
8.9526

■ 46.5052, 33.4697,  
5.5917

■ 52.0978, 42.5079,  
14.0746

■ 44.5881, 30.0325,  
3.7283


■ 55.8878, 48.1972,  
21.1669


■ 43.9608, 28.8640,  
3.2543

■ 60.4035, 54.7181,  
30.4113

■ 65.6859, 62.1054,  
41.9678

■ 71.7729, 70.3920,  
55.9813

 78.6994, 79.6084,  
72.5845

 86.4984, 89.7839,  
91.9008

 93.5934, 99.2491,  
108.8318

# Harmonies

## Analogous

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



58.0529, 37.6105, 20.5064



48.9868, 37.6105, 8.9526



37.5334, 37.6105, 5.6675

# Triad

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



48.9868, 37.6105, 8.9526



18.7807, 37.6105, 36.1233



45.3277, 37.6105, 121.9095

# Complementary

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



48.9868, 37.6105, 8.9526



35.1952, 39.7640, 97.0864

# 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.



34.0194, 37.6105, 133.4949



48.9868, 37.6105, 8.9526



20.0424, 37.6105, 71.8135

# Square

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



48.9868, 37.6105, 8.9526



21.2609, 37.6105, 15.4873



25.1386, 37.6105, 111.7911



55.6593, 37.6105, 85.2465



# Rectangle

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



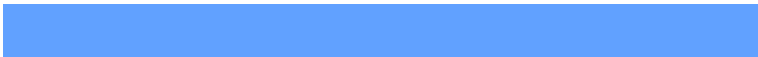
48.9868, 37.6105, 8.9526



30.5864, 37.6105, 6.1787



25.1386, 37.6105, 111.7911



41.4592, 37.6105, 129.4564

# Sweetspot

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



48.9876, 37.6125, 8.9533



76.5147, 75.8036, 63.0325



49.7365, 27.0759, 46.3031



15.8472, 15.5139, 12.2387



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.



48.9876, 37.6125, 8.9533



47.1495, 32.8323, 4.6602



67.6686, 74.9744, 15.1802



17.7884, 18.3127, 18.0596



23.2375, 15.4317, 1.7539



2.2511, 1.6270, 0.1954



# Inverse Universe

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



35.1952, 39.7640, 97.0864



32.0935, 34.7842, 99.6302



22.5616, 14.4967, 92.8752



17.1760, 18.4289, 22.0372



15.4644, 16.2843, 50.3017



1.5347, 1.7130, 4.6929



# Previews

## White Background



This preview shows how the XYZ color 48.9868, 37.6105, 8.9526 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 48.9868, 37.6105, 8.9526 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 48.9868, 37.6105, 8.9526**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9868, 37.6105, 8.9526.



This preview shows how white text looks on a background with the XYZ color 48.9868, 37.6105,

8.9526.

# 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

48.9868, 37.6105, 8.9526

### Protanopia

34.4776, 37.8925, 11.1270

### Deuteranopia

38.4317, 37.6364, 8.6071



## Tritanopia

52.8767, 37.6485, 27.0342

# Trichromacy



## Original Color

48.9868, 37.6105, 8.9526

## Protanomaly

38.5514, 36.9144, 10.2476

## Deuteranomaly

41.7351, 37.1533, 8.7130

## Tritanomaly

51.2461, 37.5707, 18.4608

# Monochromacy



## Original Color

48.9868, 37.6105, 8.9526

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

36.5368, 34.6054, 23.8226

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9868, 37.6105, 8.9526 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(251, 133, 60)` looks like.

```
.text, #text, p{  
    color:rgb(251, 133, 60)  
}
```

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(251, 133, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 133, 60) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9868, 37.6105, 8.9526 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(251, 133, 60) }
```



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

```
.border{ border-color:rgb(251, 133, 60) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 133, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 133, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 133, 60);  
box-shadow:4px 4px 4px 4px rgb(251, 133,  
60) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9868, 37.6105, 8.9526 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 133, 60) }
```

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

```
.background{ background-color: rgb(251,  
133, 60) }
```

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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