

# Converting Colors

XYZ(49.7144, 39.0231, 9.3269)

Have a look what the booklet for  
XYZ(49.7144, 39.0231, 9.3269)  
contains.

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# Color

**XYZ(49.7144, 39.0231,  
9.3269)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB8A3D
RGB	251, 138, 61
RGB Percent	98%, 54%, 24%
CMY	0.0157, 0.4588, 0.7608
CMYK	0.00, 0.45, 0.76, 0.02
HSL	24°, 96%, 61%
HSV	24°, 76%, 98%
XYZ	49.7144, 39.0231, 9.3269
YIQ	163.0090, 92.0650, 0.0090

# Conversions

## Conversions Part 2

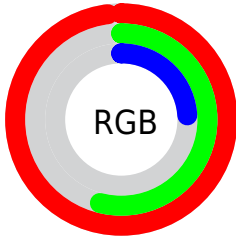
Format	Color
R <sub>Y</sub> B	251, 190, 61
Decimal	16484925
CIE Lab	68.77, 37.48, 57.99
CIE LCh	69, 69.045, 57.125
Yxy	39.0231, 0.5070, 0.3979
Android (android.graphics.Color)	4294675005 (0xFFFB8A3D)
YUV	163.0090, -50.2904, 77.1681
Hunter-Lab	62.4685, 32.7362, 34.8756

# Details

The XYZ color **49.7144, 39.0231, 9.3269** 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 **34.4720, 38.2269, 96.8277**, and the grayscale version is **35.0178, 36.8414, 40.1203**.

A 20% lighter version of the original color is **63.2906, 60.5922, 23.9825**, and **24.0723, 17.3491, 2.1087** is the 20% darker color. If you saturate the color by 10%, you get **47.1933, 34.8218, 5.8952**, and if you desaturate by 10%, it is **52.8477, 43.9437, 14.5224**.

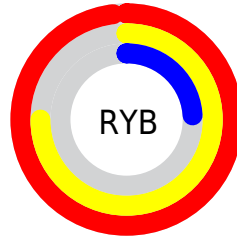
# Distribution



Red (98%)

Green (54%)

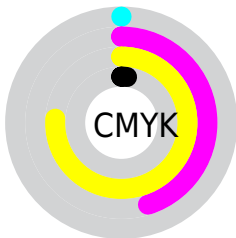
Blue (24%)



Red (98%)

Yellow (75%)

Blue (24%)

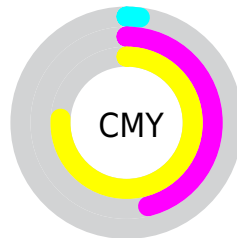


Cyan (0%)

Magenta (45%)

Yellow (76%)

Black (2%)



Cyan (2%)

Magenta (46%)


Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7144, 39.0231, 9.3269 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 49.7144, 39.0231, 9.3269 by changing the saturation by 10% instead.





 49.7144, 39.0231,  
9.3269

 49.7144, 39.0231,  
9.3269


376.0185,  
341.9887, 196.1052


 35.4034, 26.7777,  
4.8553


 88.9459, 73.6736,  
25.1092


 24.1417, 17.4063,  
2.1054


 114.5972, 96.8475,  
37.2571

 15.5641, 10.5246,  
0.6190


 144.7592,  
124.4330, 52.8007

 9.3051, 5.7482,  
0.0000

 179.7973,  
156.8145, 72.1587

 4.9994, 2.6926,  
0.0000

 220.0770,  
194.3765, 95.7496

 2.2817, 0.9734,  
0.0000

265.9635,

 0.7853, 0.0000,

237.5032, 123.9920

0.0000

317.8222,  
286.5792, 157.3043

■ 0.0000, 0.0000,  
0.0000

■ 49.7144, 39.0231,  
9.3269

■ 49.7144, 39.0231,  
9.3269

■ 47.1933, 34.8218,  
5.8952

■ 52.8477, 43.9437,  
14.5224

■ 45.2214, 31.2904,  
3.9669


■ 56.6408, 49.6154,  
21.6889


■ 44.5081, 29.9587,  
3.4368

■ 61.1387, 56.0751,  
31.0066

■ 66.3810, 63.3548,  
42.6346

■ 72.4042, 71.4845,  
56.7166

 79.2420, 80.4927,  
73.3847

 86.9260, 90.4063,  
92.7614

 93.5933, 99.2491,  
108.8318

# Harmonies

## Analogous

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



59.1281, 39.0231, 20.5228



49.7144, 39.0231, 9.3269



38.1549, 39.0231, 6.2605

# Triad

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



49.7144, 39.0231, 9.3269



19.8041, 39.0231, 39.5403



47.5268, 39.0231, 121.7781

# Complementary

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



49.7144, 39.0231, 9.3269



34.4720, 38.2269, 96.8277

# 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.



36.0457, 39.0231, 135.4727



49.7144, 39.0231, 9.3269



21.3472, 39.0231, 76.2839

# Square

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



49.7144, 39.0231, 9.3269



22.0853, 39.0231, 17.4680



26.8076, 39.0231, 115.7854



57.7007, 39.0231, 84.2751



# Rectangle

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



49.7144, 39.0231, 9.3269



31.2369, 39.0231, 7.0125



26.8076, 39.0231, 115.7854



43.6327, 39.0231, 129.9305

# Sweetspot

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



49.7153, 39.0252, 9.3276



76.8686, 76.5113, 63.1504



49.1901, 26.9420, 43.1654



15.9319, 15.6834, 12.2669



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.



49.7153, 39.0252, 9.3276



47.7554, 34.0441, 4.8622



69.4821, 78.5589, 15.9165



17.8221, 18.3801, 18.0708



23.5295, 16.0157, 1.8512



2.2803, 1.6854, 0.2051



# Inverse Universe

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



34.4720, 38.2269, 96.8277



31.1385, 32.8741, 99.3119



22.2059, 13.6948, 92.7390



17.1414, 18.3595, 22.0256



14.9713, 15.2981, 50.1373



1.4906, 1.6249, 4.6783



# Previews

## White Background



This preview shows how the XYZ color 49.7144, 39.0231, 9.3269 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 49.7144, 39.0231, 9.3269 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 49.7144, 39.0231, 9.3269**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7144, 39.0231, 9.3269.



This preview shows how white text looks on a background with the XYZ color 49.7144, 39.0231,



# 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

49.7144, 39.0231, 9.3269

### Protanopia

35.6016, 39.0123, 11.4481

### Deuteranopia

40.1006, 39.2568, 8.9538



## Tritanopia

53.8828, 39.0893, 29.1312

# Trichromacy



## Original Color

49.7144, 39.0231, 9.3269

## Protanomaly

39.6484, 38.2208, 10.5978

## Deuteranomaly

43.3308, 38.9206, 9.0995

## Tritanomaly

52.1298, 38.9936, 19.8179

# Monochromacy



## Original Color

49.7144, 39.0231, 9.3269

## Achromatopsia

34.8123, 36.6253, 39.8849

## Achromatomaly

37.8272, 36.2197, 24.7360

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7144, 39.0231, 9.3269 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, 138, 61)` looks like.

```
.text, #text, p{  
    color:rgb(251, 138, 61)  
}
```

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, 138, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 138, 61) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7144, 39.0231, 9.3269 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, 138, 61) }
```



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

```
.border{ border-color:rgb(251, 138, 61) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 138, 61)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 138, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 138, 61);  
box-shadow:4px 4px 4px 4px rgb(251, 138,  
61) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7144, 39.0231, 9.3269 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 138, 61) }
```

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

```
.background{ background-color: rgb(251,  
138, 61) }
```

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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