

# Converting Colors

XYZ(49.4746, 39.1127, 4.9419)

Have a look what the booklet for  
XYZ(49.4746, 39.1127, 4.9419)  
contains.

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# Color

**XYZ(49.3775, 39.1607,  
4.9563)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FC8B00
RGB	252, 139, 0
RGB Percent	99%, 55%, 0%
CMY	0.0118, 0.4549, 1.0000
CMYK	0.00, 0.45, 1.00, 0.01
HSL	33°, 100%, 49%
HSV	33°, 100%, 99%
XYZ	49.3775, 39.1607, 4.9563
YIQ	156.9410, 111.9670, -19.2730

# Conversions

## Conversions Part 2

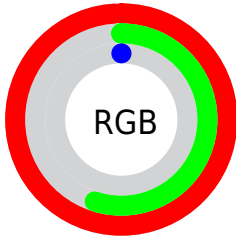
Format	Color
R <sub>Y</sub> B	205, 252, 0
Decimal	16550656
CIE Lab	68.87, 36.14, 74.91
CIE LCh	69, 83.173, 64.248
Yxy	39.1607, 0.5281, 0.4189
Android (android.graphics.Color)	4294740736 (0xFFFC8B00)
YUV	156.9410, -77.3719, 83.3667
Hunter-Lab	62.5785, 31.3328, 39.1091

# Details

The XYZ color **49.3775, 39.1607, 4.9563** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **23.4761, 18.8392, 94.4937**, and the grayscale version is **32.3250, 34.0084, 37.0351**.

A 20% lighter version of the original color is **61.5460, 59.8943, 14.7955**, and **24.1472, 17.5078, 2.1066** is the 20% darker color. If you saturate the color by 10%, you get **49.3775, 39.1613, 4.9564**, and if you desaturate by 10%, it is **51.2778, 42.6773, 6.4666**.

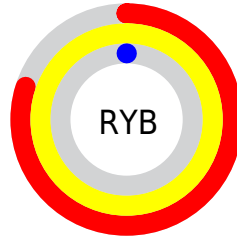
# Distribution



Red (99%)

Green (55%)

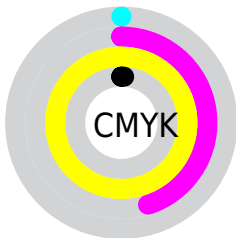
Blue (0%)



Red (80%)

Yellow (99%)

Blue (0%)

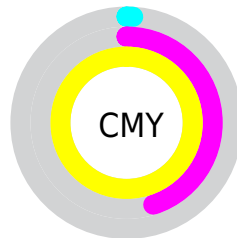


Cyan (0%)

Magenta (45%)

Yellow (100%)

Black (1%)



Cyan (1%)

Magenta (45%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.3775, 39.1607, 4.9563 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 49.3775, 39.1607, 4.9563 by changing the saturation by 10% instead.





 49.3775, 39.1607,  
4.9563


 49.3775, 39.1607,  
4.9563


374.7189,  
342.5732, 158.3259


 35.1348, 26.8848,  
2.1634


 88.4492, 73.8837,  
16.1613


 23.9337, 17.4867,  
0.6531


 114.0090, 97.0997,  
25.4104


 15.4089, 10.5821,  
0.0000


 144.0717,  
124.7310, 37.6487

 9.1951, 5.7866,  
0.0000

 179.0029,  
157.1622, 53.2946

 4.9268, 2.7157,  
0.0000

 219.1679,  
194.7776, 72.7667

 2.2387, 0.9852,  
0.0000

 264.9320,


 0.7630, 0.0000,


237.9617, 96.4836


0.0000


 316.6605,  
287.0987, 124.8639


 0.0000, 0.0000,  
0.0000


 49.3775, 39.1607,  
4.9563

 49.3775, 39.1607,  
4.9563


 49.3775, 39.1613,  
4.9564

 51.2778, 42.6773,  
6.4666

 53.5804, 46.6316,  
9.2412

 56.3613, 51.0631,  
13.6524

 59.6677, 55.9980,  
19.9273

 63.5398, 61.4593,  
28.2564

68.0134, 67.4681,  
38.8060

73.1205, 74.0436,  
51.7258

78.8907, 81.2041,  
67.1518

85.3515, 88.9667,  
85.2100

# Harmonies

## Analogous

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



62.3991, 39.1607, 13.4135



49.3775, 39.1607, 4.9563



35.3720, 39.1607, 3.4649

# Triad

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



49.3775, 39.1607, 4.9563



17.2091, 39.1607, 48.2552



53.4154, 39.1607, 135.4070

# Complementary

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



49.3775, 39.1607, 4.9563



23.4761, 18.8392, 94.4937

# 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.



39.1335, 39.1607, 164.0216



49.3775, 39.1607, 4.9563



19.9317, 39.1607, 98.0453

# Square

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



49.3775, 39.1607, 4.9563



18.7171, 39.1607, 18.2076



27.2440, 39.1607, 147.3797



65.0908, 39.1607, 82.6752



# Rectangle

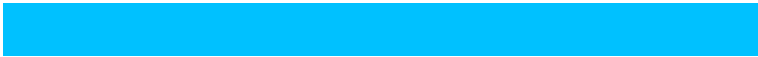
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.3775, 39.1607, 4.9563



27.7376, 39.1607, 4.7666



27.2440, 39.1607, 147.3797



48.6518, 39.1607, 149.2316

# Sweetspot

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



49.3784, 39.1628, 4.9570



75.1028, 76.0477, 53.1035



43.1482, 21.8969, 17.6953



15.5841, 15.6520, 10.1028



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.



49.3784, 39.1628, 4.9570



50.7145, 40.2090, 5.0882



70.5419, 88.0406, 13.2759



18.0384, 18.8127, 18.1429



25.8710, 20.6986, 2.6317



2.5019, 2.1287, 0.2790



# Inverse Universe

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



23.4761, 18.8392, 94.4937



24.1060, 19.3319, 97.0687



17.7310, 7.1111, 92.5327



16.9239, 17.9245, 21.9531



12.3709, 10.0974, 49.2705



1.2498, 1.1434, 4.5980



# Previews

## White Background



This preview shows how the XYZ color 49.3775, 39.1607, 4.9563 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 49.3775, 39.1607, 4.9563 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 49.3775, 39.1607, 4.9563**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.3775, 39.1607, 4.9563.



This preview shows how white text looks on a background with the XYZ color 49.3775, 39.1607,

4.9563.

# 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

49.3775, 39.1607, 4.9563

### Protanopia

35.5585, 39.3772, 6.4359

### Deuteranopia

40.0114, 39.2877, 5.4745



## Tritanopia

53.8828, 39.0893, 29.1312

# Trichromacy



## Original Color

49.3775, 39.1607, 4.9563

## Protanomaly

39.7401, 38.6289, 5.7424

## Deuteranomaly

42.9068, 38.7874, 5.2253

## Tritanomaly

51.0220, 38.5505, 13.9843

# Monochromacy



## Original Color

49.3775, 39.1607, 4.9563

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

34.9448, 33.9393, 16.7657

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.3775, 39.1607, 4.9563 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(252, 139, 0)` looks like.

```
.text, #text, p{  
    color:rgb(252, 139, 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(252, 139, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 139, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 49.3775, 39.1607, 4.9563 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(252, 139, 0) }
```



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

```
.border{ border-color:rgb(252, 139, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(252, 139, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 139, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 139, 0);  
box-shadow:4px 4px 4px 4px rgb(252, 139,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.3775, 39.1607, 4.9563 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 139, 0) }
```

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

```
.background{ background-color: rgb(252,  
139, 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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