

# Converting Colors

XYZ(51.3800, 39.4930, 7.3012)

Have a look what the booklet for  
XYZ(51.3800, 39.4930, 7.3012)  
contains.

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# Color

**XYZ(50.4988, 39.0502,  
7.2587)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF882C
RGB	255, 136, 44
RGB Percent	100%, 53%, 17%
CMY	0.0000, 0.4666, 0.8274
CMYK	0.00, 0.47, 0.83, 0.00
HSL	26°, 100%, 59%
HSV	26°, 83%, 100%
XYZ	50.4988, 39.0502, 7.2587
YIQ	161.0930, 100.4560, -3.3840

# Conversions

## Conversions Part 2

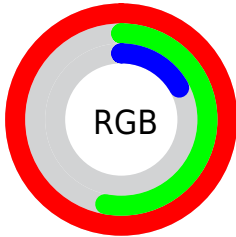
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 207, 44
Decimal	16746540
CIE Lab	68.79, 39.50, 65.09
CIE LCh	69, 76.138, 58.748
Yxy	39.0502, 0.5216, 0.4034
Android (android.graphics.Color)	4294936620 (0xFFFF882C)
YUV	161.0930, -57.7268, 82.3564
Hunter-Lab	62.4902, 34.8895, 36.8561

# Details

The XYZ color **50.4988, 39.0502, 7.2587** 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 **32.1848, 33.9477, 99.4633**, and the grayscale version is **34.1481, 35.9265, 39.1240**.

A 20% lighter version of the original color is **62.0754, 59.4034, 19.7496**, and **24.6562, 17.4170, 2.0623** is the 20% darker color. If you saturate the color by 10%, you get **48.2669, 35.1329, 4.8315**, and if you desaturate by 10%, it is **53.2980, 43.6327, 11.3253**.

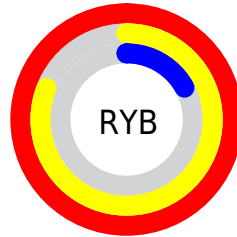
# Distribution



Red (100%)

Green (53%)

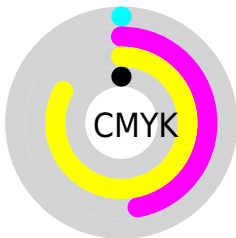
Blue (17%)



Red (100%)

Yellow (81%)

Blue (17%)

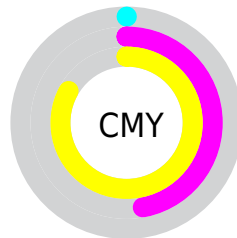


Cyan (0%)

Magenta (47%)

Yellow (83%)

Black (0%)



Cyan (0%)

Magenta (47%)

Yellow (83%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.4988, 39.0502, 7.2587 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 50.4988, 39.0502, 7.2587 by changing the saturation by 10% instead.



50.4988, 39.0502,  
7.2587

50.4988, 39.0502,  
7.2587

379.0332,  
342.1039, 179.5080

36.0293, 26.7988,  
3.5435

90.1009, 73.7150,  
21.0135

24.6270, 17.4222,  
1.3784

115.9642, 96.8972,  
31.8901

15.9267, 10.5359,  
0.1248

146.3562,  
124.4917, 45.9910

9.5628, 5.7557,  
0.0000

181.6421,  
156.8830, 63.7347

5.1701, 2.6971,  
0.0000

222.1875,  
194.4555, 85.5397

2.3832, 0.9757,  
0.0000

268.3575,

0.8367, 0.0000,

237.5935, 111.8245

0.0000

320.5176,  
286.6815, 143.0078

■ 0.0000, 0.0000,  
0.0000

■ 50.4988, 39.0502,  
7.2587

■ 50.4988, 39.0502,  
7.2587

■ 48.2669, 35.1329,  
4.8315

■ 53.2980, 43.6327,  
11.3253

■ 46.9452, 32.6708,  
3.8318

■ 56.7189, 48.9133,  
17.2789

■ 60.8106, 54.9285,  
25.3269

■ 65.6157, 61.7102,  
35.6481

■ 71.1726, 69.2878,  
48.4024

■ 77.5169, 77.6890,  
63.7347

■ 84.6814, 86.9397,  
81.7786

■ 92.6971, 97.0649,  
102.6585

■ 95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



61.3955, 39.0502, 17.9020



50.4988, 39.0502, 7.2587



37.6253, 39.0502, 4.6814

# Triad

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



50.4988, 39.0502, 7.2587



18.4192, 39.0502, 41.0836



49.4283, 39.0502, 131.4134

# Complementary

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



50.4988, 39.0502, 7.2587



32.1848, 33.9477, 99.4633

# 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.



36.6114, 39.0502, 149.5281



50.4988, 39.0502, 7.2587



20.2664, 39.0502, 83.1442

# Square

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



50.4988, 39.0502, 7.2587



20.6070, 39.0502, 16.5262



26.3349, 39.0502, 128.3567



60.6892, 39.0502, 87.1391



# Rectangle

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



50.4988, 39.0502, 7.2587



30.1484, 39.0502, 5.5347



26.3349, 39.0502, 128.3567



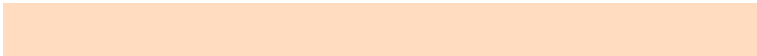
45.0822, 39.0502, 141.5591

# Sweetspot

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



50.4997, 39.0523, 7.2594



76.0156, 75.7208, 60.0437



48.8023, 25.7262, 37.3110



15.7875, 15.5694, 11.6794



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.



50.4997, 39.0523, 7.2594



47.1180, 32.9937, 3.9583



73.1298, 84.3125, 14.8027



18.6610, 19.2901, 18.8842



24.6723, 17.3559, 2.0496



2.5086, 1.9026, 0.2350

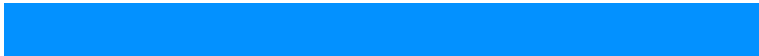


# Inverse Universe

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



32.1848, 33.9477, 99.4633



28.1949, 27.4625, 98.4225



20.6052, 10.7886, 95.6034



17.8531, 19.0777, 22.9914



14.7788, 14.4672, 51.4481



1.5477, 1.6262, 5.0456



# Previews

## White Background



This preview shows how the XYZ color 50.4988, 39.0502, 7.2587 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 50.4988, 39.0502, 7.2587 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 50.4988, 39.0502, 7.2587**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.4988, 39.0502, 7.2587.



This preview shows how white text looks on a background with the XYZ color 50.4988, 39.0502,



# 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

50.4988, 39.0502, 7.2587

### Protanopia

35.7941, 39.4427, 8.9755

### Deuteranopia

39.9967, 39.2485, 6.9065



## Tritanopia

53.8101, 39.0602, 28.7480

# Trichromacy



## Original Color

50.4988, 39.0502, 7.2587

## Protanomaly

40.0519, 38.4818, 8.2225

## Deuteranomaly

43.3954, 38.7608, 6.9447

## Tritanomaly

51.9900, 38.7620, 17.8383

# Monochromacy



## Original Color

50.4988, 39.0502, 7.2587

## Achromatopsia

33.8758, 35.6400, 38.8120

## Achromatomaly

37.0039, 35.3666, 22.0157

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.4988, 39.0502, 7.2587 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, 136, 44)` looks like.

```
.text, #text, p{  
    color:rgb(255, 136, 44)  
}
```

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, 136, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 136, 44) }
```

## Border

The CSS property to change the border of an element to XYZ 50.4988, 39.0502, 7.2587 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, 136, 44) }
```



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

```
.border{ border-color:rgb(255, 136, 44) }
```

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

Here you see how a box with a 4 pixel rgb(255, 136, 44) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 136, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 136, 44);  
box-shadow:4px 4px 4px 4px rgb(255, 136,  
44) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.4988, 39.0502, 7.2587 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 136, 44) }
```

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

```
.background{ background-color: rgb(255,  
136, 44) }
```

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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