

# Converting Colors

XYZ(49.2672, 35.9582, 8.7876)

Have a look what the booklet for  
XYZ(49.2672, 35.9582, 8.7876)  
contains.

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# Color

**XYZ(49.2900, 36.0122,  
8.7681)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7C3D
RGB	255, 124, 61
RGB Percent	100%, 49%, 24%
CMY	0.0000, 0.5137, 0.7608
CMYK	0.00, 0.51, 0.76, 0.00
HSL	19°, 100%, 62%
HSV	19°, 76%, 100%
XYZ	49.2900, 36.0122, 8.7681
YIQ	155.9870, 98.2990, 8.1790

# Conversions

## Conversions Part 2

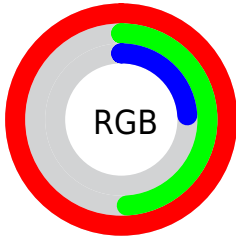
Format	Color
R <sub>Y</sub> B	255, 154, 61
Decimal	16743485
CIE Lab	66.53, 45.98, 55.93
CIE LCh	67, 72.399, 50.575
Yxy	36.0122, 0.5240, 0.3828
Android (android.graphics.Color)	4294933565 (0xFFFF7C3D)
YUV	155.9870, -46.8286, 86.8344
Hunter-Lab	60.0102, 41.5951, 33.3442

# Details

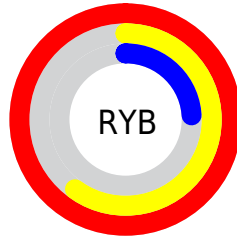
The XYZ color **49.2900, 36.0122, 8.7681** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **38.8227, 45.9085, 101.4223**, and the grayscale version is **31.7670, 33.4213, 36.3958**.

A 20% lighter version of the original color is **60.2847, 54.6701, 22.7043**, and **23.7665, 15.5938, 1.9009** is the 20% darker color. If you saturate the color by 10%, you get **46.7865, 31.8559, 5.3124**, and if you desaturate by 10%, it is **52.4981, 41.0564, 14.0683**.

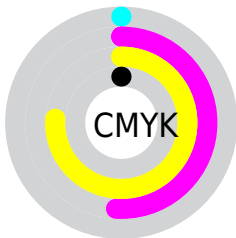
# Distribution



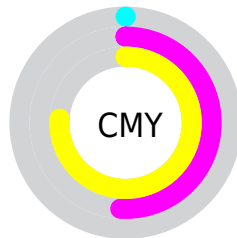
- Red (100%)
- Green (49%)
- Blue (24%)



- Red (100%)
- Yellow (60%)
- Blue (24%)



- Cyan (0%)
- Magenta (51%)
- Yellow (76%)
- Black (0%)




- Cyan (0%)
- Magenta (51%)
- Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.2900, 36.0122, 8.7681 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 49.2900, 36.0122, 8.7681 by changing the saturation by 10% instead.





 49.2900, 36.0122,  
8.7681


 49.2900, 36.0122,  
8.7681


374.3809,  
329.0139, 191.7923

 35.0651, 24.4436,  
4.4955


 88.3201, 69.0509,  
24.0216

 23.8797, 15.6630,  
1.9009


 113.8561, 91.2898,  
35.8395


 15.3687, 9.2860,  
0.4933


 143.8930,  
117.8543, 51.0097

 9.1665, 4.9282,  
0.0000

 178.7964,  
149.1287, 69.9506

 4.9080, 2.2052,  
0.0000

 218.9315,  
185.4975, 93.0808

 2.2276, 0.7228,  
0.0000

 264.6637,

 0.7572, 0.0000,

227.3450, 120.8187

0.0000

316.3584,  
275.0557, 153.5831

■ 0.0000, 0.0000,  
0.0000

■ 49.2900, 36.0122,  
8.7681

■ 49.2900, 36.0122,  
8.7681

■ 46.7865, 31.8559,  
5.3124

■ 52.4981, 41.0564,  
14.0683

■ 44.9147, 28.5221,  
3.4253

■ 56.4673, 47.0354,  
21.4324

■ 44.3191, 27.4186,  
2.9564

■ 61.2505, 53.9990,  
31.0508

■ 66.8944, 61.9915,  
43.0911

■ 73.4421, 71.0544,  
57.7052

80.9335, 81.2267,  
75.0323

89.4059, 92.5454,  
95.2015

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



57.7591, 36.0122, 21.7138



49.2900, 36.0122, 8.7681



37.7661, 36.0122, 4.8446

# Triad

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



49.2900, 36.0122, 8.7681



17.4741, 36.0122, 30.2040



42.1110, 36.0122, 126.1767

# Complementary

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



49.2900, 36.0122, 8.7681



38.8227, 45.9085, 101.4223

# 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.



30.9190, 36.0122, 132.8516



49.2900, 36.0122, 8.7681



18.1540, 36.0122, 64.2310

# Square

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



49.2900, 36.0122, 8.7681



20.4900, 36.0122, 12.1600



22.5979, 36.0122, 105.9970



53.0430, 36.0122, 90.8267



# Rectangle

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



49.2900, 36.0122, 8.7681



30.5345, 36.0122, 4.8965



22.5979, 36.0122, 105.9970



38.2090, 36.0122, 132.3815

# Sweetspot

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



49.2908, 36.0142, 8.7687



75.6457, 74.0654, 62.7428



52.5977, 28.4732, 53.5080



15.6397, 15.0989, 12.1695



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.



49.2908, 36.0142, 8.7687



45.7913, 30.1160, 4.2075



67.5268, 72.4862, 14.8474



18.4910, 18.9503, 18.8275



23.2776, 14.5664, 1.5847



2.3609, 1.6072, 0.1858

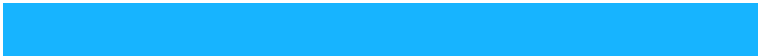


# Inverse Universe

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



38.8227, 45.9085, 101.4223



34.6500, 39.8971, 100.4824



24.2094, 16.6820, 96.5512



18.0284, 19.4285, 23.0498



17.2997, 19.5091, 52.2884



1.7838, 2.0984, 5.1243



# Previews

## White Background



This preview shows how the XYZ color 49.2900, 36.0122, 8.7681 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 49.2900, 36.0122, 8.7681 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 49.2900, 36.0122, 8.7681**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.2900, 36.0122, 8.7681.



This preview shows how white text looks on a background with the XYZ color 49.2900, 36.0122,



# 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

49.2900, 36.0122, 8.7681

### Protanopia

32.9124, 36.0118, 11.3472

### Deuteranopia

36.8040, 36.0556, 8.2685



## Tritanopia

51.6676, 35.9860, 24.3015

# Trichromacy



**Original Color**

49.2900, 36.0122, 8.7681

**Protanomaly**

37.3654, 34.8626, 10.2286

**Deuteranomaly**

40.6363, 35.4504, 8.3153

**Tritanomaly**

50.5256, 35.9140, 17.1011

# Monochromacy



**Original Color**

49.2900, 36.0122, 8.7681

**Achromatopsia**

31.5995, 33.2452, 36.2040

**Achromatomaly**

35.1627, 32.5335, 22.5155

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.2900, 36.0122, 8.7681 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, 124, 61)` looks like.

```
.text, #text, p{  
    color:rgb(255, 124, 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(255, 124, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 124, 61) }
```

## Border

The CSS property to change the border of an element to XYZ 49.2900, 36.0122, 8.7681 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, 124, 61) }
```



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

```
.border{ border-color:rgb(255, 124, 61) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 124, 61)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 124, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 124, 61);  
box-shadow:4px 4px 4px 4px rgb(255, 124,  
61) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.2900, 36.0122, 8.7681 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 124, 61) }
```

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

```
.background{ background-color: rgb(255,  
124, 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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