

# Converting Colors

XYZ(48.8722, 35.5687, 7.4221)

Have a look what the booklet for  
XYZ(48.8722, 35.5687, 7.4221)  
contains.

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# Color

**XYZ(48.9205, 35.6649,  
7.4376)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7B33
RGB	255, 123, 51
RGB Percent	100%, 48%, 20%
CMY	0.0000, 0.5176, 0.8000
CMYK	0.00, 0.52, 0.80, 0.00
HSL	21°, 100%, 60%
HSV	21°, 80%, 100%
XYZ	48.9205, 35.6649, 7.4376
YIQ	154.2600, 101.7840, 5.5920

# Conversions

## Conversions Part 2

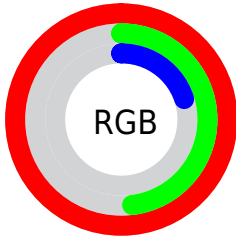
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 162, 51
Decimal	16743219
CIE Lab	66.26, 46.12, 60.08
CIE LCh	66, 75.738, 52.488
Yxy	35.6649, 0.5316, 0.3876
Android (android.graphics.Color)	4294933299 (0xFFFF7B33)
YUV	154.2600, -50.9072, 88.3490
Hunter-Lab	59.7201, 41.7104, 34.4200

# Details

The XYZ color **48.9205, 35.6649, 7.4376** 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 **36.3474, 41.7881, 100.7573**, and the grayscale version is **31.0161, 32.6314, 35.5356**.

A 20% lighter version of the original color is **59.6086, 54.0801, 20.1287**, and **23.6760, 15.4567, 1.7356** is the 20% darker color. If you saturate the color by 10%, you get **46.6273, 31.7456, 4.6184**, and if you desaturate by 10%, it is **51.8680, 40.4012, 11.9939**.

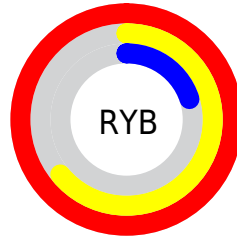
# Distribution



Red (100%)

Green (48%)

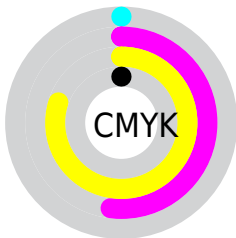
Blue (20%)



Red (100%)

Yellow (64%)

Blue (20%)

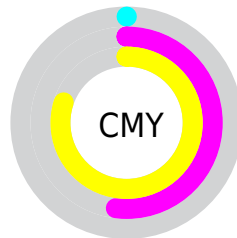


Cyan (0%)

Magenta (52%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (52%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9205, 35.6649, 7.4376 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 48.9205, 35.6649, 7.4376 by changing the saturation by 10% instead.





 48.9205, 35.6649,  
7.4376


 48.9205, 35.6649,  
7.4376


372.9514,  
327.4935, 181.0185

 34.7707, 24.1755,  
3.6547


 87.7748, 68.5145,  
21.3760

 23.6520, 15.4639,  
1.4379


 113.2100, 90.6436,  
32.3685


 15.1990, 9.1456,  
0.1710


 143.1377,  
117.0879, 46.6013

 9.0464, 4.8363,  
0.0000

 177.9233,  
148.2320, 64.4929

 4.8288, 2.1515,  
0.0000

 217.9321,  
184.4602, 86.4619

 2.1809, 0.6934,  
0.0000

 263.5295,

 0.7326, 0.0000,

226.1569, 112.9268

0.0000

315.0808,  
273.7066, 144.3061

■ 0.0000, 0.0000,  
0.0000

■ 48.9205, 35.6649,  
7.4376

■ 48.9205, 35.6649,  
7.4376

■ 46.6273, 31.7456,  
4.6184

■ 51.8680, 40.4012,  
11.9939

■ 44.8967, 28.5739,  
3.1491


■ 55.5276, 45.9983,  
18.5229


■ 44.8966, 28.5736,  
3.1489

■ 59.9522, 52.5031,  
27.2250

■ 65.1882, 59.9570,  
38.2750

■ 71.2781, 68.3984,  
51.8297

 78.2610, 77.8636,  
68.0324

 86.1736, 88.3868,  
87.0152

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

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



58.1900, 35.6649, 19.5678



48.9205, 35.6649, 7.4376



36.8184, 35.6649, 4.0470

# Triad

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



48.9205, 35.6649, 7.4376



16.6016, 35.6649, 31.2543



42.9039, 35.6649, 129.3359

# Complementary

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



48.9205, 35.6649, 7.4376



36.3474, 41.7881, 100.7573

# 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.



31.1371, 35.6649, 138.9220



48.9205, 35.6649, 7.4376



17.5287, 35.6649, 67.8177

# Square

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



48.9205, 35.6649, 7.4376



19.4227, 35.6649, 11.9342



22.3171, 35.6649, 112.0317



54.2128, 35.6649, 90.3672



# Rectangle

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



48.9205, 35.6649, 7.4376



29.4151, 35.6649, 4.2583



22.3171, 35.6649, 112.0317



38.8155, 35.6649, 136.7401

# Sweetspot

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



48.9213, 35.6669, 7.4382



75.3581, 73.9520, 61.2236



51.0335, 27.0717, 47.6637



15.6027, 15.1132, 11.8852



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.



48.9213, 35.6669, 7.4382



45.5345, 29.7595, 3.6371



68.6005, 75.0253, 13.9979



18.5339, 19.0359, 18.8418



23.5862, 15.1836, 1.6876



2.3947, 1.6748, 0.1971

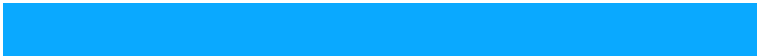


# Inverse Universe

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



36.3474, 41.7881, 100.7573



32.2898, 35.5100, 99.7600



22.4026, 13.8985, 96.1090



17.9837, 19.3391, 23.0349



16.6071, 18.1237, 52.0575



1.7198, 1.9704, 5.1030



# Previews

## White Background



This preview shows how the XYZ color 48.9205, 35.6649, 7.4376 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 48.9205, 35.6649, 7.4376 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 48.9205, 35.6649, 7.4376**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9205, 35.6649, 7.4376.



This preview shows how white text looks on a background with the XYZ color 48.9205, 35.6649,



# 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

48.9205, 35.6649, 7.4376

### Protanopia

32.5850, 35.8809, 9.6232

### Deuteranopia

36.4028, 35.6322, 6.9665



## Tritanopia

51.4201, 35.6975, 23.5822

# Trichromacy



## Original Color

48.9205, 35.6649, 7.4376

## Protanomaly

37.0606, 34.7406, 8.6232

## Deuteranomaly

40.2518, 35.0574, 7.0281

## Tritanomaly

50.1611, 35.5748, 15.7781

# Monochromacy



## Original Color

48.9205, 35.6649, 7.4376

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

34.5192, 32.0056, 21.1880

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9205, 35.6649, 7.4376 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, 123, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 123, 51)  
}
```

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, 123, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 123, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9205, 35.6649, 7.4376 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, 123, 51) }
```



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

```
.border{ border-color:rgb(255, 123, 51) }
```

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

Here you see how a box with a 4 pixel rgb(255, 123, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 123, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 123, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 123,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9205, 35.6649, 7.4376 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 123, 51) }
```

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

```
.background{ background-color: rgb(255,  
123, 51) }
```

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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