

# Converting Colors

XYZ(48.1070, 34.0472, 7.1677)

Have a look what the booklet for  
XYZ(48.1070, 34.0472, 7.1677)  
contains.

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# Color

**XYZ(48.0829, 33.9898,  
7.1584)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF7433
RGB	255, 116, 51
RGB Percent	100%, 45%, 20%
CMY	0.0000, 0.5451, 0.8000
CMYK	0.00, 0.55, 0.80, 0.00
HSL	19°, 100%, 60%
HSV	19°, 80%, 100%
XYZ	48.0829, 33.9898, 7.1584
YIQ	150.1510, 103.7090, 9.2530

# Conversions

## Conversions Part 2

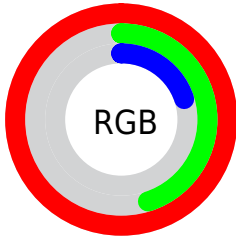
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 146, 51
Decimal	16741427
CIE Lab	64.95, 49.46, 58.86
CIE LCh	65, 76.879, 49.958
Yxy	33.9898, 0.5389, 0.3809
Android (android.graphics.Color)	4294931507 (0xFFFF7433)
YUV	150.1510, -48.8814, 91.9526
Hunter-Lab	58.3008, 45.1895, 33.5307

# Details

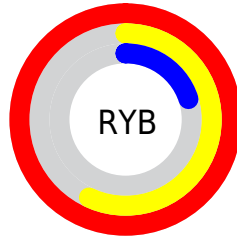
The XYZ color **48.0829, 33.9898, 7.1584** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **37.8269, 44.7473, 101.2503**, and the grayscale version is **29.2251, 30.7471, 33.4836**.

A 20% lighter version of the original color is **58.2012, 51.3451, 19.4134**, and **23.2085, 14.5216, 1.5797** is the 20% darker color. If you saturate the color by 10%, you get **45.8479, 30.1869, 4.3586**, and if you desaturate by 10%, it is **51.0017, 38.6687, 11.7051**.

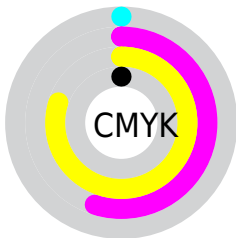
# Distribution



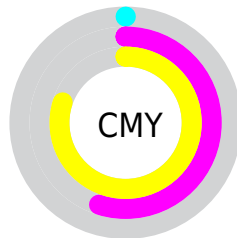
- Red (100%)
- Green (45%)
- Blue (20%)



- Red (100%)
- Yellow (57%)
- Blue (20%)



- Cyan (0%)
- Magenta (55%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (55%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.0829, 33.9898, 7.1584 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 48.0829, 33.9898, 7.1584 by changing the saturation by 10% instead.





 48.0829, 33.9898,  
7.1584

 48.0829, 33.9898,  
7.1584


369.6978,  
320.0866, 178.6540


 34.1041, 22.8858,  
3.4814

 86.5368, 65.9178,  
20.8094

 23.1368, 14.5092,  
1.3454


 111.7425, 87.5106,  
31.6206


 14.8158, 8.4757,  
0.0986


 141.4213,  
113.3684, 45.6468

 8.7757, 4.4008,  
0.0000

 175.9384,  
143.8756, 63.3068

 4.6511, 1.9002,  
0.0000

 215.6593,  
179.4166, 85.0189

 2.0767, 0.5485,  
0.0000

 260.9492,

 0.6765, 0.0000,

220.3759, 111.2018

0.0000

312.1736,  
267.1377, 142.2740

■ 0.0000, 0.0000,  
0.0000

■ 48.0829, 33.9898,  
7.1584

■ 48.0829, 33.9898,  
7.1584

■ 45.8479, 30.1869,  
4.3586

■ 51.0017, 38.6687,  
11.7051

■ 44.2015, 27.1836,  
2.9173

■ 54.6655, 44.2742,  
18.2354

■ 44.2014, 27.1833,  
2.9172

■ 59.1300, 50.8588,  
26.9508

■ 64.4443, 58.4693,  
38.0268

■ 70.6533, 67.1490,  
51.6212

77.7985, 76.9387,  
67.8779

85.9186, 87.8769,  
86.9299

95.0496, 99.9998,  
108.9000

# Harmonies

## Analogous

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



56.8203, 33.9898, 19.8137



48.0829, 33.9898, 7.1584



36.1744, 33.9898, 3.5471

# Triad

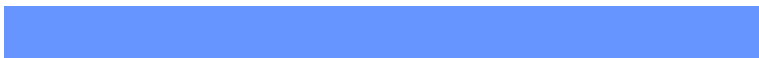
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.0829, 33.9898, 7.1584



15.5119, 33.9898, 27.3373



40.1567, 33.9898, 129.3847

# Complementary

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



48.0829, 33.9898, 7.1584



37.8269, 44.7473, 101.2503

# 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.



28.7242, 33.9898, 135.7899



48.0829, 33.9898, 7.1584



16.1051, 33.9898, 62.0535

# Square

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



48.0829, 33.9898, 7.1584



18.5612, 33.9898, 9.9607



20.4240, 33.9898, 106.3440



51.5661, 33.9898, 91.9402



# Rectangle

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



48.0829, 33.9898, 7.1584



28.7526, 33.9898, 3.5439



20.4240, 33.9898, 106.3440



36.1414, 33.9898, 135.8267

# Sweetspot

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



48.0837, 33.9917, 7.1590



74.8255, 72.8868, 61.0461



51.7616, 27.3629, 51.4982



15.4766, 14.8610, 11.8432



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.



48.0837, 33.9917, 7.1590



44.8028, 28.2962, 3.3933



66.8049, 71.4342, 13.3994



18.4818, 18.9318, 18.8244



23.2146, 14.4404, 1.5637



2.3539, 1.5931, 0.1834

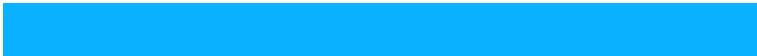


# Inverse Universe

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



37.8269, 44.7473, 101.2503



33.8980, 38.7264, 100.2961



22.9380, 14.9693, 96.2873



18.0381, 19.4479, 23.0531



17.4548, 19.8192, 52.3401



1.7981, 2.1269, 5.1290



# Previews

## White Background



This preview shows how the XYZ color 48.0829, 33.9898, 7.1584 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 48.0829, 33.9898, 7.1584 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 48.0829, 33.9898, 7.1584**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.0829, 33.9898, 7.1584.



This preview shows how white text looks on a background with the XYZ color 48.0829, 33.9898,

7.1584.

# 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

48.0829, 33.9898, 7.1584

### Protanopia

31.0009, 34.0316, 9.4923

### Deuteranopia

34.8257, 34.1013, 6.6661



## Tritanopia

50.1945, 33.9369, 21.0445

# Trichromacy



## Original Color

48.0829, 33.9898, 7.1584

## Protanomaly

35.7630, 32.9295, 8.4741

## Deuteranomaly

38.7379, 33.4114, 6.6928

## Tritanomaly

49.1655, 33.8784, 14.5376

# Monochromacy



## Original Color

48.0829, 33.9898, 7.1584

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

32.8648, 30.0832, 19.9941

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.0829, 33.9898, 7.1584 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, 116, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 116, 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, 116, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 116, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 48.0829, 33.9898, 7.1584 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, 116, 51) }
```



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

```
.border{ border-color:rgb(255, 116, 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, 116, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 116, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 116, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 116,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.0829, 33.9898, 7.1584 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 116, 51) }
```

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

```
.background{ background-color: rgb(255,  
116, 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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