

# Converting Colors

XYZ(48.1326, 33.8978, 7.7648)

Have a look what the booklet for  
XYZ(48.1326, 33.8978, 7.7648)  
contains.

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# Color

**XYZ(48.0845, 33.8070,  
7.7324)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7338
RGB	255, 115, 56
RGB Percent	100%, 45%, 22%
CMY	0.0000, 0.5490, 0.7804
CMYK	0.00, 0.55, 0.78, 0.00
HSL	18°, 100%, 61%
HSV	18°, 78%, 100%
XYZ	48.0845, 33.8070, 7.7324
YIQ	150.1340, 102.3790, 11.3310

# Conversions

## Conversions Part 2

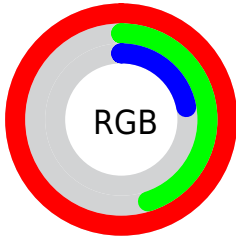
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 140, 56
Decimal	16741176
CIE <sub>Lab</sub>	64.81, 50.09, 56.50
CIE <sub>LCh</sub>	65, 75.510, 48.443
Yxy	33.8070, 0.5365, 0.3772
Android (android.graphics.Color)	4294931256 (0xFFFF7338)
YUV	150.1340, -46.4081, 91.9675
Hunter-Lab	58.1438, 45.8666, 32.8158

# Details

The XYZ color **48.0845, 33.8070, 7.7324** 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 **39.4188, 47.5367, 101.7048**, and the grayscale version is **29.2081, 30.7292, 33.4640**.

A 20% lighter version of the original color is **58.2686, 51.0710, 20.6965**, and **23.1546, 14.4139, 1.5618** is the 20% darker color. If you saturate the color by 10%, you get **45.7617, 29.9186, 4.6251**, and if you desaturate by 10%, it is **51.1241, 38.6222, 12.6438**.

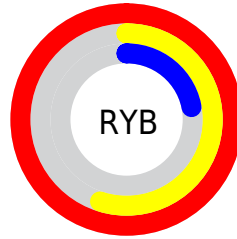
# Distribution



Red (100%)

Green (45%)

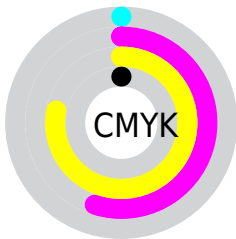
Blue (22%)



Red (100%)

Yellow (55%)

Blue (22%)

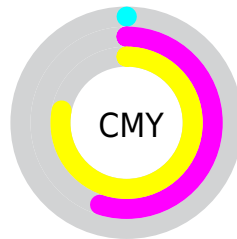


Cyan (0%)

Magenta (55%)

Yellow (78%)

Black (0%)



Cyan (0%)

Magenta (55%)


Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.0845, 33.8070, 7.7324 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 48.0845, 33.8070, 7.7324 by changing the saturation by 10% instead.





 48.0845, 33.8070,  
7.7324

 48.0845, 33.8070,  
7.7324


369.7040,  
319.2706, 183.4733


 34.1053, 22.7454,  
3.8389


 86.5391, 65.6334,  
21.9696

 23.1378, 14.4056,  
1.5374


 111.7453, 87.1670,  
33.1504


 14.8166, 8.4033,  
0.2455


 141.4246,  
112.9600, 47.5973

 8.7762, 4.3541,  
0.0000

 175.9422,  
143.3969, 65.7289

 4.6514, 1.8735,  
0.0000

 215.6636,  
178.8620, 87.9638

 2.0769, 0.5324,  
0.0000

 260.9541,

 0.6766, 0.0000,

219.7397, 114.7204

0.0000

312.1792,  
266.4145, 146.4174

■ 0.0000, 0.0000,  
0.0000

■ 48.0845, 33.8070,  
7.7324

■ 48.0845, 33.8070,  
7.7324

■ 45.7617, 29.9186,  
4.6251

■ 51.1241, 38.6222,  
12.6438

■ 44.0726, 26.8818,  
3.0095

■ 54.9419, 44.4180,  
19.5881

■ 43.7975, 26.3756,  
2.7826

■ 59.5943, 51.2503,  
28.7614

■ 65.1314, 59.1688,  
40.3362

■ 71.5992, 68.2198,  
54.4677

■ 79.0401, 78.4467,  
71.2981

■ 87.4938, 89.8908,  
90.9589

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.



56.3133, 33.8070, 20.9370



48.0845, 33.8070, 7.7324



36.5038, 33.8070, 3.7980

# Triad

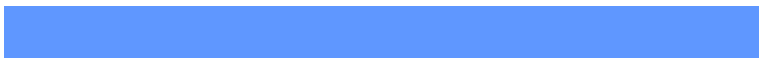
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.0845, 33.8070, 7.7324



15.6992, 33.8070, 26.0744



39.2075, 33.8070, 127.7779

# Complementary

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



48.0845, 33.8070, 7.7324



39.4188, 47.5367, 101.7048

# 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.



28.1250, 33.8070, 132.0908



48.0845, 33.8070, 7.7324



16.1056, 33.8070, 59.1758

# Square

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



48.0845, 33.8070, 7.7324



18.8945, 33.8070, 9.6712



20.1678, 33.8070, 102.2127



50.4440, 33.8070, 92.4964



# Rectangle

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



48.0845, 33.8070, 7.7324



29.1609, 33.8070, 3.6751



20.1678, 33.8070, 102.2127



35.2995, 33.8070, 133.4191

# Sweetspot

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



48.0853, 33.8089, 7.7330



75.2248, 73.2237, 62.6025



52.9182, 28.1940, 56.4525



15.5395, 14.8985, 12.1361



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.



48.0853, 33.8089, 7.7330



44.6863, 28.0113, 3.5147



65.4677, 68.5738, 13.5271



18.4483, 18.8648, 18.8133



22.9976, 14.0065, 1.4914



2.3294, 1.5441, 0.1753

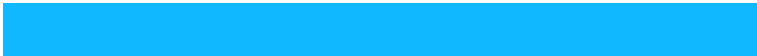


# Inverse Universe

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



39.4188, 47.5367, 101.7048



35.3765, 41.5732, 100.7676



24.1538, 17.0067, 96.6165



18.0734, 19.5183, 23.0648



18.0314, 20.9724, 52.5323



1.8509, 2.2324, 5.1466



# Previews

## White Background



This preview shows how the XYZ color 48.0845, 33.8070, 7.7324 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 48.0845, 33.8070, 7.7324 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 48.0845, 33.8070, 7.7324**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.0845, 33.8070, 7.7324.



This preview shows how white text looks on a background with the XYZ color 48.0845, 33.8070,



# 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

48.0845, 33.8070, 7.7324

### Protanopia

30.9494, 33.9850, 10.3974

### Deuteranopia

34.6882, 34.0157, 7.3222



## Tritanopia

50.0268, 33.6962, 20.6969

# Trichromacy



## Original Color

48.0845, 33.8070, 7.7324

## Protanomaly

35.5003, 32.5535, 9.2629

## Deuteranomaly

38.7348, 33.1817, 7.3808

## Tritanomaly

49.0997, 33.6746, 14.7385

# Monochromacy



## Original Color

48.0845, 33.8070, 7.7324

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

32.8371, 29.8436, 20.5527

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.0845, 33.8070, 7.7324 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, 115, 56)` looks like.

```
.text, #text, p{  
    color:rgb(255, 115, 56)  
}
```

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, 115, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 115, 56) }
```

## Border

The CSS property to change the border of an element to XYZ 48.0845, 33.8070, 7.7324 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, 115, 56) }
```



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

```
.border{ border-color:rgb(255, 115, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 115, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 115, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 115, 56);  
box-shadow:4px 4px 4px 4px rgb(255, 115,  
56) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.0845, 33.8070, 7.7324 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 115, 56) }
```

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

```
.background{ background-color: rgb(255,  
115, 56) }
```

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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