

# Converting Colors

XYZ(48.3257, 33.5599, 10.0616)

Have a look what the booklet for  
XYZ(48.3257, 33.5599, 10.0616)  
contains.

<b>XYZ(48.3148, 33.5381, 10.0579)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(48.3148, 33.5381,  
10.0579)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7148
RGB	255, 113, 72
RGB Percent	100%, 44%, 28%
CMY	0.0000, 0.5568, 0.7176
CMYK	0.00, 0.56, 0.72, 0.00
HSL	13°, 100%, 64%
HSV	13°, 72%, 100%
XYZ	48.3148, 33.5381, 10.0579
YIQ	150.7840, 97.7930, 17.3530

# Conversions

## Conversions Part 2

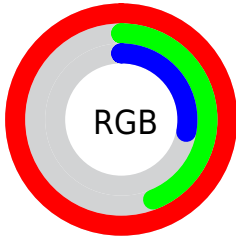
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 125, 72
Decimal	16740680
CIE <sub>Lab</sub>	64.59, 51.65, 48.55
CIE <sub>LCh</sub>	65, 70.885, 43.225
Yxy	33.5381, 0.5257, 0.3649
Android (android.graphics.Color)	4294930760 (0xFFFF7148)
YUV	150.7840, -38.8405, 91.3974
Hunter-Lab	57.9121, 47.5725, 30.2413

# Details

The XYZ color **48.3148, 33.5381, 10.0579** 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 **44.7669, 56.6867, 103.1892**, and the grayscale version is **29.4557, 30.9897, 33.7478**.

A 20% lighter version of the original color is **58.7555, 50.6704, 25.0960**, and **23.1638, 14.1684, 2.3781** is the 20% darker color. If you saturate the color by 10%, you get **45.6768, 29.3290, 5.8905**, and if you desaturate by 10%, it is **51.7803, 38.8511, 16.2021**.

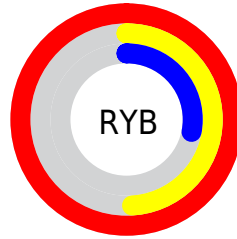
# Distribution



Red (100%)

Green (44%)

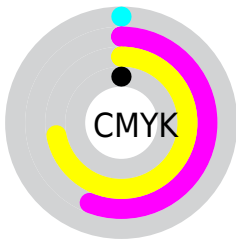
Blue (28%)



Red (100%)

Yellow (49%)

Blue (28%)

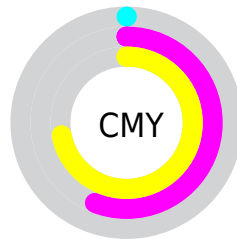


Cyan (0%)

Magenta (56%)

Yellow (72%)

Black (0%)



Cyan (0%)

Magenta (56%)


Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.3148, 33.5381, 10.0579 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 48.3148, 33.5381, 10.0579 by changing the saturation by 10% instead.





 48.3148, 33.5381,  
10.0579


 48.3148, 33.5381,  
10.0579

370.6004,  
318.0675, 201.5846

 34.2885, 22.5390,  
5.3313


 86.8798, 65.2147,  
26.5139


 23.2793, 14.2535,  
2.3808


 112.1492, 86.6610,  
39.0803

 14.9217, 8.2972,  
0.7760


 141.8971,  
112.3585, 55.0970

 8.8504, 4.2857,  
0.0000

 176.4888,  
142.6916, 74.9826

 4.7001, 1.8346,  
0.0000

 216.2896,  
178.0446, 99.1556

 2.1053, 0.5086,  
0.0000

261.6649,

 0.6921, 0.0000,

218.8020, 128.0346

0.0000

312.9800,  
265.3482, 162.0381

■ 0.0000, 0.0000,  
0.0000

■ 48.3148, 33.5381,  
10.0579

■ 48.3148, 33.5381,  
10.0579

■ 45.6768, 29.3290,  
5.8905

■ 51.7803, 38.8511,  
16.2021

■ 43.7865, 26.1368,  
3.4466


■ 56.1376, 45.3352,  
24.5311

■ 42.7099, 24.2002,  
2.4200

■ 61.4470, 53.0584,  
35.2281

■ 67.7627, 62.0818,  
48.4564

■ 75.1346, 72.4623,  
64.3649

 83.6092, 84.2536,  
83.0907

 93.2300, 97.5061,  
104.7615

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.



54.8961, 33.5381, 25.1662



48.3148, 33.5381, 10.0579



37.8470, 33.5381, 4.8893

# Triad

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



48.3148, 33.5381, 10.0579



16.6062, 33.5381, 22.6461



36.5528, 33.5381, 122.4089

# Complementary

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



48.3148, 33.5381, 10.0579



44.7669, 56.6867, 103.1892

# 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.



26.5702, 33.5381, 120.4128



48.3148, 33.5381, 10.0579



16.4045, 33.5381, 50.8525

# Square

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



48.3148, 33.5381, 10.0579



20.2935, 33.5381, 9.0567



19.6674, 33.5381, 89.7198



47.1956, 33.5381, 94.2516



# Rectangle

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



48.3148, 33.5381, 10.0579



30.7918, 33.5381, 4.3142



19.6674, 33.5381, 89.7198



32.9874, 33.5381, 125.5569

# Sweetspot

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



48.3156, 33.5400, 10.0585



74.9487, 72.2019, 63.9581



55.8679, 30.8190, 67.5299



15.5928, 14.8242, 12.7117



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.



48.3156, 33.5400, 10.0585



44.7900, 27.8577, 4.6615



63.8008, 64.5104, 15.2202



18.3395, 18.6471, 18.7770



22.4075, 12.8262, 1.2947



2.2590, 1.4034, 0.1518



# Inverse Universe

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



44.7669, 56.6867, 103.1892



40.8042, 51.6638, 102.4292



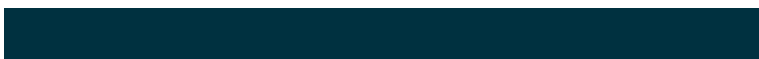
27.9114, 22.9756, 97.5707



18.1893, 19.7503, 23.1035



20.0832, 25.0760, 53.2162



2.0362, 2.6030, 5.2084



# Previews

## White Background



This preview shows how the XYZ color 48.3148, 33.5381, 10.0579 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 48.3148, 33.5381, 10.0579 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 48.3148, 33.5381, 10.0579**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.3148, 33.5381, 10.0579.



This preview shows how white text looks on a background with the XYZ color 48.3148, 33.5381,



# 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

48.3148, 33.5381, 10.0579

### Protanopia

30.9703, 33.6701, 13.6708

### Deuteranopia

34.1785, 33.4672, 9.5089



## Tritanopia

49.8610, 33.4582, 20.3531

# Trichromacy



## Original Color

48.3148, 33.5381, 10.0579

## Protanomaly

35.6387, 32.3403, 12.1485

## Deuteranomaly

38.4326, 32.7653, 9.6089

## Tritanomaly

49.1162, 33.3320, 15.9016

# Monochromacy



## Original Color

48.3148, 33.5381, 10.0579

## Achromatopsia

29.4150, 30.9469, 33.7012

## Achromatomaly

33.4448, 30.1153, 22.4625

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.3148, 33.5381, 10.0579 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, 113, 72)` looks like.

```
.text, #text, p{  
    color:rgb(255, 113, 72)  
}
```

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, 113, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 113, 72) }
```

## Border

The CSS property to change the border of an element to XYZ 48.3148, 33.5381, 10.0579 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, 113, 72) }
```



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

```
.border{ border-color:rgb(255, 113, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 113, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 113, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 113, 72);  
box-shadow:4px 4px 4px 4px rgb(255, 113,  
72) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.3148, 33.5381, 10.0579 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 113, 72) }
```

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

```
.background{ background-color: rgb(255,  
113, 72) }
```

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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