

# Converting Colors

XYZ(67.6760, 43.6609, 13.0706)

Have a look what the booklet for  
XYZ(67.6760, 43.6609, 13.0706)  
contains.

<b>XYZ(48.8186, 33.9192, 12.1576)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(48.8186, 33.9192,  
12.1576)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7253
RGB	255, 114, 83
RGB Percent	100%, 45%, 33%
CMY	0.0000, 0.5529, 0.6745
CMYK	0.00, 0.55, 0.67, 0.00
HSL	11°, 100%, 66%
HSV	11°, 67%, 100%
XYZ	48.8186, 33.9192, 12.1576
YIQ	152.6250, 93.9870, 20.2510

# Conversions

## Conversions Part 2

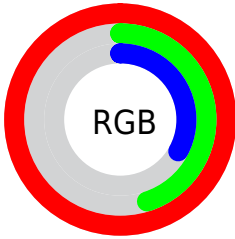
Format	Color
R <sub>Y</sub> B	255, 121, 83
Decimal	16740947
CIE Lab	64.90, 51.72, 43.17
CIE LCh	65, 67.373, 39.851
Yxy	33.9192, 0.5144, 0.3574
Android (android.graphics.Color)	4294931027 (0xFFFF7253)
YUV	152.6250, -34.3251, 89.7829
Hunter-Lab	58.2402, 47.7035, 28.3914

# Details

The XYZ color **48.8186, 33.9192, 12.1576** is a light color, and the websafe version is hex **FF6633**. The color can be described as light muted orange. A complement of this color would be **48.2704, 62.3654, 104.1006**, and the grayscale version is **30.2323, 31.8068, 34.6376**.

A 20% lighter version of the original color is **59.6616, 51.3294, 28.9534**, and **23.6206, 14.4618, 3.2155** is the 20% darker color. If you saturate the color by 10%, you get **45.9144, 29.4077, 7.1931**, and if you desaturate by 10%, it is **52.6249, 39.6566, 19.2084**.

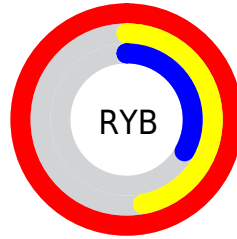
# Distribution



Red (100%)

Green (45%)

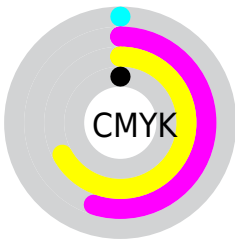
Blue (33%)



Red (100%)

Yellow (47%)

Blue (33%)

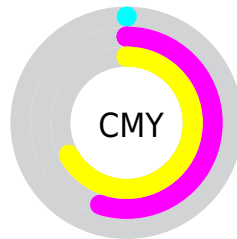


Cyan (0%)

Magenta (55%)

Yellow (67%)

Black (0%)



Cyan (0%)

Magenta (55%)


Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8186, 33.9192, 12.1576 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 48.8186, 33.9192, 12.1576 by changing the saturation by 10% instead.





 48.8186, 33.9192,  
12.1576


 48.8186, 33.9192,  
12.1576


372.5566,  
319.7716, 216.4607

 34.6895, 22.8315,  
6.7273


 87.6243, 65.8080,  
30.4505

 23.5892, 14.4692,  
3.2163


 113.0317, 87.3779,  
44.1501


 15.1523, 8.4477,  
1.2061


 142.9292,  
113.2107, 61.4433

 9.0133, 4.3827,  
0.0000

 177.6823,  
143.6908, 82.7485

 4.8071, 1.8899,  
0.0000

 217.6561,  
179.2025, 108.4843

 2.1681, 0.5423,  
0.0000

263.2163,

 0.7258, 0.0000,

220.1303, 139.0692

0.0000

314.7279,  
266.8585, 174.9218

■ 0.0000, 0.0000,  
0.0000

■ 48.8186, 33.9192,  
12.1576

■ 48.8186, 33.9192,  
12.1576

■ 45.9144, 29.4077,  
7.1931

■ 52.6249, 39.6566,  
19.2084

■ 43.8309, 26.0252,  
4.0798

■ 57.4002, 46.6958,  
28.5424

■ 42.4723, 23.6681,  
2.5166

■ 63.2076, 55.1132,  
40.3357

■ 42.2156, 23.2116,  
2.2553

■ 70.1040, 64.9773,  
54.7463

■ 78.1422, 76.3524,  
71.9192

 87.3713, 89.2985,  
91.9886

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



54.3780, 33.9192, 28.5115



48.8186, 33.9192, 12.1576



39.1139, 33.9192, 6.0290

# Triad

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



48.8186, 33.9192, 12.1576



17.6855, 33.9192, 21.3946



35.5433, 33.9192, 118.7366

# Complementary

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



48.8186, 33.9192, 12.1576



48.2704, 62.3654, 104.1006

# 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.



26.2212, 33.9192, 113.4031



48.8186, 33.9192, 12.1576



17.1102, 33.9192, 46.8665

# Square

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



48.8186, 33.9192, 12.1576



21.6859, 33.9192, 9.1985



19.9157, 33.9192, 82.9369



45.7576, 33.9192, 95.1380



# Rectangle

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



48.8186, 33.9192, 12.1576



32.2877, 33.9192, 5.1027



19.9157, 33.9192, 82.9369



32.1907, 33.9192, 120.4635

# Sweetspot

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



48.8194, 33.9211, 12.1582



75.9823, 73.3060, 67.2715



58.1062, 32.9558, 75.4897



15.7725, 14.9966, 13.3482



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.



48.8194, 33.9211, 12.1582



45.0857, 28.0829, 5.8895



62.9189, 62.1202, 16.8580



18.2742, 18.5165, 18.7552



22.1346, 12.2804, 1.2037



2.2235, 1.3324, 0.1400

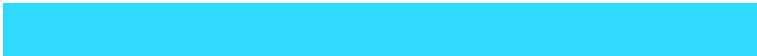


# Inverse Universe

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



48.2704, 62.3654, 104.1006



44.3002, 57.8792, 103.4447



31.0441, 27.9128, 98.3585



18.2600, 19.8916, 23.1270



21.4498, 27.8091, 53.6718



2.1578, 2.8463, 5.2489



# Previews

## White Background



This preview shows how the XYZ color 48.8186, 33.9192, 12.1576 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

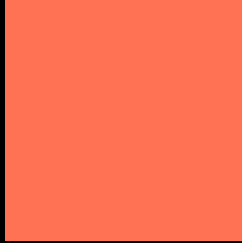
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8186, 33.9192, 12.1576 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 48.8186, 33.9192, 12.1576**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8186, 33.9192, 12.1576.



This preview shows how white text looks on a background with the XYZ color 48.8186, 33.9192,



# 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

48.8186, 33.9192, 12.1576

### Protanopia

31.4922, 34.1252, 16.7314

### Deuteranopia

34.7165, 33.9366, 11.5581



## Tritanopia

50.1945, 33.9369, 21.0445

# Trichromacy



## Original Color

48.8186, 33.9192, 12.1576

## Protanomaly

36.0059, 32.6929, 14.7686

## Deuteranomaly

38.9722, 33.2075, 11.7528

## Tritanomaly

49.5840, 33.8683, 17.2885

# Monochromacy



## Original Color

48.8186, 33.9192, 12.1576

## Achromatopsia

30.2779, 31.8547, 34.6897

## Achromatomaly

34.3641, 30.9709, 24.5889

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8186, 33.9192, 12.1576 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, 114, 83)` looks like.

```
.text, #text, p{  
    color:rgb(255, 114, 83)  
}
```

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, 114, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 114, 83) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8186, 33.9192, 12.1576 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, 114, 83) }
```



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

```
.border{ border-color:rgb(255, 114, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 114, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 114, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 114, 83);  
box-shadow:4px 4px 4px 4px rgb(255, 114,  
83) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8186, 33.9192, 12.1576 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 114, 83) }
```

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

```
.background{ background-color: rgb(255,  
114, 83) }
```

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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