

# Converting Colors

XYZ(48.6862, 35.3066, 7.5560)

Have a look what the booklet for  
XYZ(48.6862, 35.3066, 7.5560)  
contains.

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# **Color**

**XYZ(48.8194, 35.4270,  
7.5138)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7A34
RGB	255, 122, 52
RGB Percent	100%, 48%, 20%
CMY	0.0000, 0.5215, 0.7961
CMYK	0.00, 0.52, 0.80, 0.00
HSL	21°, 100%, 60%
HSV	21°, 80%, 100%
XYZ	48.8194, 35.4270, 7.5138
YIQ	153.7870, 101.7380, 6.4260

# Conversions

## Conversions Part 2

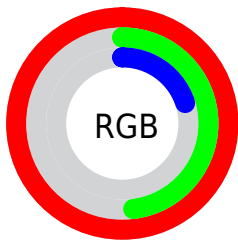
Format	Color
R <sub>Y</sub> B	255, 159, 52
Decimal	16742964
CIE Lab	66.08, 46.63, 59.48
CIE LCh	66, 75.583, 51.904
Yxy	35.4270, 0.5320, 0.3861
Android (android.graphics.Color)	4294933044 (0xFFFF7A34)
YUV	153.7870, -50.1810, 88.7638
Hunter-Lab	59.5206, 42.2465, 34.1797

# Details

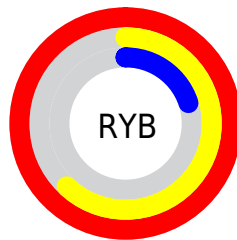
The XYZ color **48.8194, 35.4270, 7.5138** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **36.8136, 42.6450, 100.8982**, and the grayscale version is **30.8048, 32.4090, 35.2934**.

A 20% lighter version of the original color is **59.4608, 53.7038, 20.3286**, and **23.6140, 15.3326, 1.7149** is the 20% darker color. If you saturate the color by 10%, you get **46.5143, 31.5016, 4.6358**, and if you desaturate by 10%, it is **51.7884, 40.1854, 12.1415**.

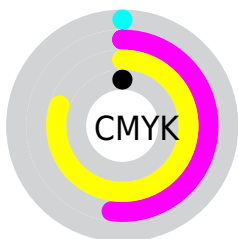
# Distribution



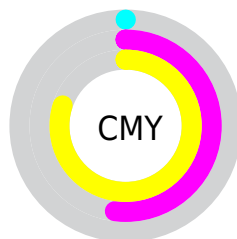
- Red (100%)
- Green (48%)
- Blue (20%)



- Red (100%)
- Yellow (62%)
- 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 48.8194, 35.4270, 7.5138 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 48.8194, 35.4270, 7.5138 by changing the saturation by 10% instead.





 48.8194, 35.4270,  
7.5138


 48.8194, 35.4270,  
7.5138


372.5597,  
326.4491, 181.6570


 34.6902, 23.9920,  
3.7022


 87.6255, 68.1467,  
21.5298

 23.5897, 15.3277,  
1.4634


 113.0331, 90.2002,  
32.5713


 15.1526, 9.0497,  
0.1905


 142.9309,  
116.5620, 46.8599

 9.0136, 4.7736,  
0.0000

 177.6841,  
147.6165, 64.8140

 4.8072, 2.1150,  
0.0000

 217.6583,  
183.7481, 86.8522

 2.1682, 0.6731,  
0.0000

 263.2187,

 0.7259, 0.0000,

225.3411, 113.3931

0.0000

314.7307,  
272.7799, 144.8552

■ 0.0000, 0.0000,  
0.0000

■ 48.8194, 35.4270,  
7.5138

■ 48.8194, 35.4270,  
7.5138

■ 46.5143, 31.5016,  
4.6358

■ 51.7884, 40.1854,  
12.1415

■ 44.7841, 28.3399,  
3.1385

■ 55.4794, 45.8220,  
18.7529

■ 44.7246, 28.2295,  
3.0916

■ 59.9457, 52.3847,  
27.5474

■ 65.2341, 59.9160,  
38.6993

■ 71.3875, 68.4554,  
52.3650

■ 78.4455, 78.0400,  
68.6872

■ 86.4450, 88.7049,  
87.7982

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.



57.9263, 35.4270, 19.8058



48.8194, 35.4270, 7.5138



36.8039, 35.4270, 4.0364

# Triad

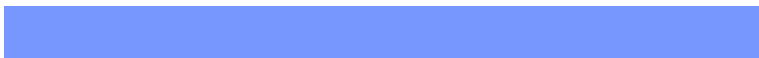
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.8194, 35.4270, 7.5138



16.5069, 35.4270, 30.5082



42.3819, 35.4270, 129.0281

# Complementary

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



48.8194, 35.4270, 7.5138



36.8136, 42.6450, 100.8982

# 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.



30.7236, 35.4270, 137.8225



48.8194, 35.4270, 7.5138



17.3559, 35.4270, 66.5303

# Square

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



48.8194, 35.4270, 7.5138



19.3840, 35.4270, 11.6264



22.0353, 35.4270, 110.5231



53.6715, 35.4270, 90.6530



# Rectangle

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



48.8194, 35.4270, 7.5138



29.4140, 35.4270, 4.1969



22.0353, 35.4270, 110.5231



38.3230, 35.4270, 136.1623

# Sweetspot

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



48.8202, 35.4290, 7.5144



75.2316, 73.6989, 61.1814



51.4732, 27.3182, 49.7611



15.5727, 15.0532, 11.8752



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.



48.8202, 35.4290, 7.5144



45.3542, 29.3990, 3.5770



67.7600, 73.3086, 13.8277



18.5215, 19.0112, 18.8377



23.4944, 15.0000, 1.6570



2.3848, 1.6549, 0.1937

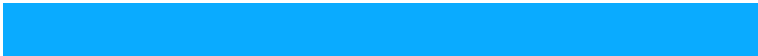


# Inverse Universe

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



36.8136, 42.6450, 100.8982



32.6609, 36.2522, 99.8837



22.7808, 14.5793, 96.2206



17.9966, 19.3648, 23.0392



16.8025, 18.5146, 52.1227



1.7380, 2.0066, 5.1090



# Previews

## White Background



This preview shows how the XYZ color 48.8194, 35.4270, 7.5138 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 48.8194, 35.4270, 7.5138 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 48.8194, 35.4270, 7.5138**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8194, 35.4270, 7.5138.



This preview shows how white text looks on a background with the XYZ color 48.8194, 35.4270,



# 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

48.8194, 35.4270, 7.5138

### Protanopia

32.4645, 35.5519, 9.8538

### Deuteranopia

36.1486, 35.4991, 7.0446



## Tritanopia

51.2394, 35.4378, 23.2084

# Trichromacy



## Original Color

48.8194, 35.4270, 7.5138

## Protanomaly

36.9553, 34.4486, 8.8392

## Deuteranomaly

39.9654, 34.9076, 7.1141

## Tritanomaly

50.0414, 35.3355, 15.7382

# Monochromacy



## Original Color

48.8194, 35.4270, 7.5138

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

34.3697, 31.7067, 21.1381

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8194, 35.4270, 7.5138 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, 122, 52)` looks like.

```
.text, #text, p{  
    color:rgb(255, 122, 52)  
}
```

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, 122, 52) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 122, 52) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8194, 35.4270, 7.5138 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, 122, 52) }
```



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

```
.border{ border-color:rgb(255, 122, 52) }
```

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

Here you see how a box with a 4 pixel rgb(255, 122, 52) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 122, 52); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 122, 52);  
box-shadow:4px 4px 4px 4px rgb(255, 122,  
52) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8194, 35.4270, 7.5138 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 122, 52) }
```

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

```
.background{ background-color: rgb(255,  
122, 52) }
```

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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