

# Converting Colors

XYZ(52.3527, 42.5230, 8.5806)

Have a look what the booklet for  
XYZ(52.3527, 42.5230, 8.5806)  
contains.

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# **Color**

**XYZ(52.4274, 42.6788,  
8.6066)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9433
RGB	255, 148, 51
RGB Percent	100%, 58%, 20%
CMY	0.0000, 0.4196, 0.8000
CMYK	0.00, 0.42, 0.80, 0.00
HSL	29°, 100%, 60%
HSV	29°, 80%, 100%
XYZ	52.4274, 42.6788, 8.6066
YIQ	168.9350, 94.9090, -7.4830

# Conversions

## Conversions Part 2

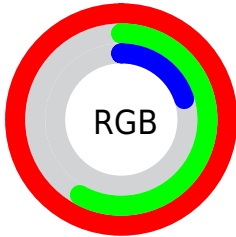
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 236, 51
Decimal	16749619
CIE <sub>Lab</sub>	71.34, 33.61, 64.75
CIE <sub>LCh</sub>	71, 72.949, 62.569
Yxy	42.6788, 0.5055, 0.4115
Android (android.graphics.Color)	4294939699 (0xFFFF9433)
YUV	168.9350, -58.1420, 75.4790
Hunter-Lab	65.3290, 28.9228, 37.9193

# Details

The XYZ color **52.4274, 42.6788, 8.6066** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **31.6413, 32.3758, 99.1884**, and the grayscale version is **37.9268, 39.9020, 43.4533**.

A 20% lighter version of the original color is **65.1457, 64.9918, 22.4757**, and **25.9211, 19.5722, 2.4116** is the 20% darker color. If you saturate the color by 10%, you get **50.0335, 38.5580, 5.7538**, and if you desaturate by 10%, it is **55.3734, 47.4120, 13.1625**.

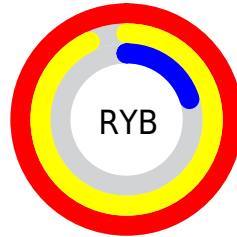
# Distribution



Red (100%)

Green (58%)

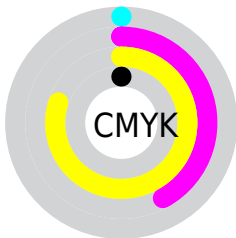
Blue (20%)



Red (100%)

Yellow (93%)

Blue (20%)

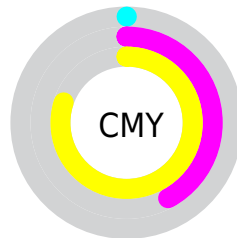


Cyan (0%)

Magenta (42%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (42%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 52.4274, 42.6788, 8.6066 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 52.4274, 42.6788, 8.6066 by changing the saturation by 10% instead.





 52.4274, 42.6788,  
8.6066


 52.4274, 42.6788,  
8.6066


386.3813,  
357.2892, 190.5241


 37.5715, 29.6332,  
4.3922


 92.9318, 79.2259,  
23.7048


 25.8260, 19.5603,  
1.8429


 119.3109,  
103.4962, 35.4257

 16.8255, 12.0759,  
0.4560


 150.2619,  
132.2769, 50.4859

 10.2047, 6.7954,  
0.0000

 186.1501,  
165.9523, 69.3038

 5.5982, 3.3344,  
0.0000

 227.3407,  
204.9068, 92.2980

 2.6407, 1.3087,  
0.0000

 274.1992,

 0.9667, 0.1480,

249.5249, 119.8871

0.0000

327.0910,  
300.1909, 152.4897

■ 0.0000, 0.0000,  
0.0000

■ 52.4274, 42.6788,  
8.6066

■ 52.4274, 42.6788,  
8.6066

■ 50.0335, 38.5580,  
5.7538

■ 55.3734, 47.4120,  
13.1625

■ 48.1086, 34.9977,  
4.2197

■ 58.9206, 52.7842,  
19.6542

■ 48.1083, 34.9972,  
4.2195

■ 63.1143, 58.8273,  
28.2794

■ 67.9941, 65.5686,  
39.2107

■ 73.5956, 73.0334,  
52.6027

79.9520, 81.2455,  
68.5966

87.0940, 90.2274,  
87.3227

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.



63.8608, 42.6788, 18.7706



52.4274, 42.6788, 8.6066



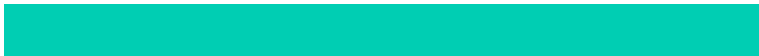
39.5170, 42.6788, 6.3857

# Triad

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



52.4274, 42.6788, 8.6066



21.2728, 42.6788, 49.5635



54.6299, 42.6788, 129.7865

# Complementary

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



52.4274, 42.6788, 8.6066



31.6413, 32.3758, 99.1884

# 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.



41.6312, 42.6788, 151.8604



52.4274, 42.6788, 8.6066



23.7601, 42.6788, 93.1322

# Square

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



52.4274, 42.6788, 8.6066



23.0277, 42.6788, 21.7840



30.6421, 42.6788, 135.8834



65.3020, 42.6788, 85.0434



# Rectangle

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



52.4274, 42.6788, 8.6066



32.1706, 42.6788, 7.8436



30.6421, 42.6788, 135.8834



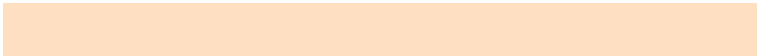
50.3055, 42.6788, 140.8949

# Sweetspot

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



52.4284, 42.6811, 8.6074



77.3166, 77.8690, 61.8764



48.7514, 26.1589, 35.6462



16.0688, 16.0455, 12.0406



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.



52.4284, 42.6811, 8.6074



48.8347, 36.3599, 4.7372



75.4659, 88.7562, 16.2866



18.7219, 19.4119, 18.9045



25.2850, 18.5813, 2.2539



2.5704, 2.0262, 0.2556



# Inverse Universe

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



31.6413, 32.3758, 99.1884



27.3514, 25.6333, 98.1139



20.9184, 10.9302, 95.6141



17.7915, 18.9545, 22.9708



14.0182, 12.9459, 51.1946



1.4743, 1.4794, 5.0211



# Previews

## White Background



This preview shows how the XYZ color 52.4274, 42.6788, 8.6066 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 52.4274, 42.6788, 8.6066 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 52.4274, 42.6788, 8.6066**

## **Background**



This preview shows how black text looks on a background with the XYZ color 52.4274, 42.6788, 8.6066.



This preview shows how white text looks on a background with the XYZ color 52.4274, 42.6788,



# 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

52.4274, 42.6788, 8.6066

### Protanopia

38.8586, 42.7012, 10.1971

### Deuteranopia

43.6060, 42.6699, 8.3207



## Tritanopia

56.3508, 42.5441, 34.5200

# Trichromacy



**Original Color**

52.4274, 42.6788, 8.6066

**Protanomaly**

42.7600, 41.9378, 9.4555

**Deuteranomaly**

46.5155, 42.3251, 8.4073

**Tritanomaly**

54.3078, 42.4443, 21.5499

# Monochromacy



**Original Color**

52.4274, 42.6788, 8.6066

**Achromatopsia**

37.7116, 39.6755, 43.2066

**Achromatomaly**

40.3302, 39.2755, 25.1940

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 52.4274, 42.6788, 8.6066 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, 148, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 148, 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, 148, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 148, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 52.4274, 42.6788, 8.6066 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, 148, 51) }
```



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

```
.border{ border-color:rgb(255, 148, 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, 148, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 148, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 148, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 148,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 52.4274, 42.6788, 8.6066 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 148, 51) }
```

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

```
.background{ background-color: rgb(255,  
148, 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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