

# Converting Colors

XYZ(47.1985, 31.1742, 10.0905)

Have a look what the booklet for  
XYZ(47.1985, 31.1742, 10.0905)  
contains.

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# Color

**XYZ(47.2274, 31.2572,  
10.0226)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF664A
RGB	255, 102, 74
RGB Percent	100%, 40%, 29%
CMY	0.0000, 0.6000, 0.7098
CMYK	0.00, 0.60, 0.71, 0.00
HSL	9°, 100%, 65%
HSV	9°, 71%, 100%
XYZ	47.2274, 31.2572, 10.0226
YIQ	144.5550, 100.1760, 23.7280

# Conversions

## Conversions Part 2

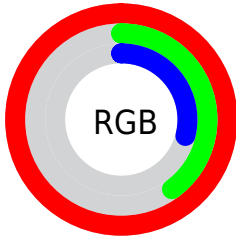
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 107, 74
Decimal	16737866
CIE Lab	62.72, 56.70, 45.43
CIE LCh	63, 72.651, 38.704
Yxy	31.2572, 0.5336, 0.3532
Android (android.graphics.Color)	4294927946 (0xFFFF664A)
YUV	144.5550, -34.7836, 96.8603
Hunter-Lab	55.9081, 52.9454, 28.5068

# Details

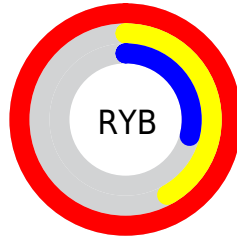
The XYZ color **47.2274, 31.2572, 10.0226** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **48.3404, 63.6086, 104.3369**, and the grayscale version is **26.8426, 28.2405, 30.7539**.

A 20% lighter version of the original color is **57.1050, 47.1690, 25.1635**, and **22.5844, 12.9569, 2.3475** is the 20% darker color. If you saturate the color by 10%, you get **44.6858, 27.2817, 5.7615**, and if you desaturate by 10%, it is **50.6690, 36.4765, 16.3004**.

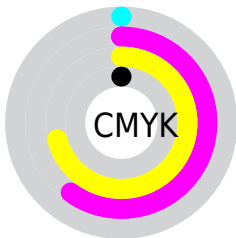
# Distribution



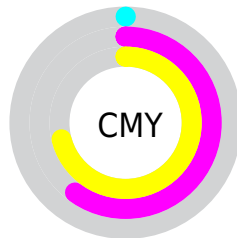
- Red (100%)
- Green (40%)
- Blue (29%)



- Red (100%)
- Yellow (42%)
- Blue (29%)



- Cyan (0%)
- Magenta (60%)
- Yellow (71%)
- Black (0%)




- Cyan (0%)
- Magenta (60%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.2274, 31.2572, 10.0226 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 47.2274, 31.2572, 10.0226 by changing the saturation by 10% instead.





 47.2274, 31.2572,  
10.0226


 47.2274, 31.2572,  
10.0226

366.3553,  
307.7215, 201.3240


 33.4242, 20.7948,  
5.3081

 85.2696, 61.6448,  
26.4465

 22.6124, 12.9741,  
2.3673


 110.2393, 82.3387,  
38.9930


 14.4267, 7.4107,  
0.7686


 139.6619,  
107.2120, 54.9873

 8.5017, 3.7202,  
0.0000

 173.9027,  
136.6489, 74.8478

 4.4721, 1.5183,  
0.0000

 213.3271,  
171.0339, 98.9932

 1.9725, 0.3016,  
0.0000

258.3004,

 0.6185, 0.0000,

210.7514, 127.8420

0.0000

309.1880,  
256.1858, 161.8128

■ 0.0000, 0.0000,  
0.0000

■ 47.2274, 31.2572,  
10.0226

■ 47.2274, 31.2572,  
10.0226

■ 44.6858, 27.2817,  
5.7615

■ 50.6690, 36.4765,  
16.3004

■ 42.9533, 24.4396,  
3.2641

■ 55.0848, 43.0273,  
24.8041

■ 41.9804, 22.7413,  
2.1769

■ 60.5438, 50.9953,  
35.7181

■ 67.1076, 60.4573,  
49.2071

■ 74.8334, 71.4848,  
65.4213

83.7741, 84.1444,  
84.4995

93.9794, 98.4991,  
106.5707

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.



52.8452, 31.2572, 26.4156



47.2274, 31.2572, 10.0226



37.1925, 31.2572, 4.2874

# Triad

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



47.2274, 31.2572, 10.0226



15.2406, 31.2572, 17.7938



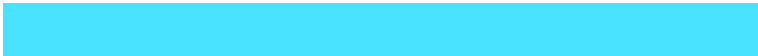
32.6912, 31.2572, 121.6776

# Complementary

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



47.2274, 31.2572, 10.0226



48.3404, 63.6086, 104.3369

# 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.



23.3034, 31.2572, 114.5668



47.2274, 31.2572, 10.0226



14.5569, 31.2572, 42.9916

# Square

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



47.2274, 31.2572, 10.0226



19.3031, 31.2572, 6.7194



17.1670, 31.2572, 80.9193



43.3097, 31.2572, 96.9774



# Rectangle

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



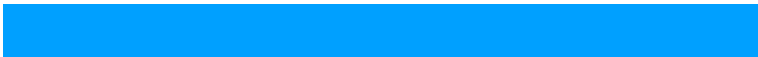
47.2274, 31.2572, 10.0226



30.1428, 31.2572, 3.4193



17.1670, 31.2572, 80.9193



29.2794, 31.2572, 123.1220

# Sweetspot

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



47.2281, 31.2590, 10.0231



74.8173, 71.4615, 65.3865



57.6712, 31.7506, 76.3781



15.5320, 14.6098, 12.9774



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.



47.2281, 31.2590, 10.0231



43.8978, 26.0094, 4.5616



61.2486, 59.2999, 14.6966



18.2363, 18.4407, 18.7426



22.0029, 12.0170, 1.1598

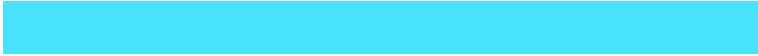


2.2052, 1.2958, 0.1339



# Inverse Universe

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



48.3404, 63.6086, 104.3369



44.8362, 59.5922, 103.7471



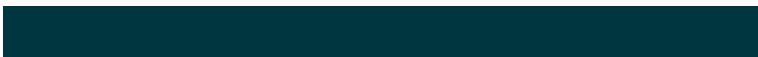
29.8695, 26.6669, 98.1800



18.3013, 19.9743, 23.1408



22.2911, 29.4917, 53.9522



2.2321, 2.9950, 5.2737



# Previews

## White Background



This preview shows how the XYZ color 47.2274, 31.2572, 10.0226 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



## 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 47.2274, 31.2572, 10.0226**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.2274, 31.2572, 10.0226.



This preview shows how white text looks on a background with the XYZ color 47.2274, 31.2572,



# 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

47.2274, 31.2572, 10.0226

### Protanopia

28.8424, 31.3188, 14.4225

### Deuteranopia

32.0658, 31.4513, 9.3817



## Tritanopia

48.2516, 31.2036, 16.8444

# Trichromacy



## Original Color

47.2274, 31.2572, 10.0226

## Protanomaly

33.4535, 29.7118, 12.5661

## Deuteranomaly

36.3342, 30.2640, 9.3954

## Tritanomaly

47.8176, 31.1825, 14.0882

# Monochromacy



## Original Color

47.2274, 31.2572, 10.0226

## Achromatopsia

26.9133, 28.3149, 30.8349

## Achromatomaly

31.1876, 27.3467, 21.0874

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.2274, 31.2572, 10.0226 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, 102, 74)` looks like.

```
.text, #text, p{  
    color:rgb(255, 102, 74)  
}
```

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, 102, 74) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 102, 74) }
```

## Border

The CSS property to change the border of an element to XYZ 47.2274, 31.2572, 10.0226 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, 102, 74) }
```



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

```
.border{ border-color:rgb(255, 102, 74) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 102, 74)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 102, 74); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 102, 74);  
box-shadow:4px 4px 4px 4px rgb(255, 102,  
74) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.2274, 31.2572, 10.0226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 102, 74) }
```

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

```
.background{ background-color: rgb(255,  
102, 74) }
```

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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