

# Converting Colors

XYZ(46.9627, 32.4162, 4.7302)

Have a look what the booklet for  
XYZ(46.9627, 32.4162, 4.7302)  
contains.

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# Color

**XYZ(47.0024, 32.4864,  
4.7705)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6E1A
RGB	255, 110, 26
RGB Percent	100%, 43%, 10%
CMY	0.0000, 0.5686, 0.8980
CMYK	0.00, 0.57, 0.90, 0.00
HSL	22°, 100%, 55%
HSV	22°, 90%, 100%
XYZ	47.0024, 32.4864, 4.7705
YIQ	143.7790, 113.3840, 4.6160

# Conversions

## Conversions Part 2

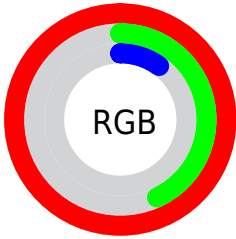
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 159, 26
Decimal	16739866
CIE <sub>Lab</sub>	63.74, 51.68, 66.98
CIE <sub>LCh</sub>	64, 84.598, 52.350
Yxy	32.4864, 0.5578, 0.3856
Android (android.graphics.Color)	4294929946 (0xFFFF6E1A)
YUV	143.7790, -58.0650, 97.5408
Hunter-Lab	56.9968, 47.4554, 34.9354

# Details

The XYZ color **47.0024, 32.4864, 4.7705** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **33.0378, 36.5633, 99.9232**, and the grayscale version is **26.6159, 28.0020, 30.4942**.

A 20% lighter version of the original color is **56.2181, 48.7795, 14.4350**, and **22.6014, 13.6795, 1.4492** is the 20% darker color. If you saturate the color by 10%, you get **45.2330, 29.2421, 3.2747**, and if you desaturate by 10%, it is **49.3290, 36.4646, 7.6290**.

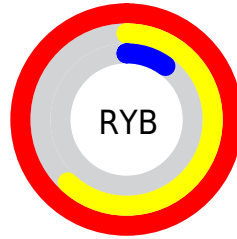
# Distribution



Red (100%)

Green (43%)

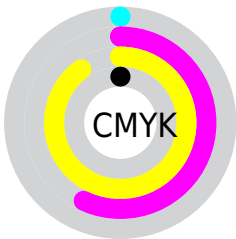
Blue (10%)



Red (100%)

Yellow (62%)

Blue (10%)

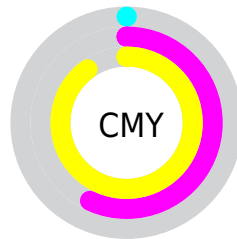


Cyan (0%)

Magenta (57%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (57%)


Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.0024, 32.4864, 4.7705 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 47.0024, 32.4864, 4.7705 by changing the saturation by 10% instead.





 47.0024, 32.4864,  
4.7705


 47.0024, 32.4864,  
4.7705


365.4729,  
313.3290, 156.4390


 33.2455, 21.7333,  
2.0569


 84.9359, 63.5728,  
15.7510


 22.4747, 13.6611,  
0.5899


 109.8433, 84.6750,  
24.8550


 14.3247, 7.8853,  
0.0000


 139.1981,  
109.9955, 36.9262

 8.4300, 4.0216,  
0.0000


 173.3659,  
139.9189, 52.3831

 4.4254, 1.6857,  
0.0000

 212.7119,  
174.8296, 71.6443

 1.9455, 0.4144,  
0.0000

 257.6015,


 0.6031, 0.0000,


215.1119, 95.1283


0.0000


 308.4000,  
261.1503, 123.2537


 0.0000, 0.0000,  
0.0000


 47.0024, 32.4864,  
4.7705


 47.0024, 32.4864,  
4.7705


 45.2330, 29.2421,  
3.2747


 49.3290, 36.4646,  
7.6290

 45.2020, 29.1845,  
3.2508

 52.2971, 41.2311,  
12.2239

 55.9660, 46.8351,  
18.7921

 60.3867, 53.3194,  
27.5323

 65.6045, 60.7232,  
38.6185

71.6610, 69.0831,  
52.2071

78.5943, 78.4337,  
68.4407

86.4402, 88.8075,  
87.4510

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.



57.1278, 32.4864, 15.8994



47.0024, 32.4864, 4.7705



34.0129, 32.4864, 2.1009

# Triad

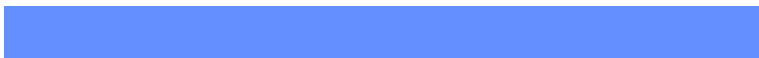
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



47.0024, 32.4864, 4.7705



13.3450, 32.4864, 27.3727



40.3837, 32.4864, 136.6478

# Complementary

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



47.0024, 32.4864, 4.7705



33.0378, 36.5633, 99.9232

# 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.



27.9407, 32.4864, 147.5724



47.0024, 32.4864, 4.7705



14.2268, 32.4864, 66.4641

# Square

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



47.0024, 32.4864, 4.7705



16.1152, 32.4864, 8.6005



18.9397, 32.4864, 116.3455



52.6748, 32.4864, 92.1251



# Rectangle

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



47.0024, 32.4864, 4.7705



26.2532, 32.4864, 2.2457



18.9397, 32.4864, 116.3455



36.0149, 32.4864, 145.1757

# Sweetspot

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



47.0031, 32.4882, 4.7710



73.5144, 71.6026, 56.4841



48.9632, 24.9404, 40.7785



15.2538, 14.6712, 10.9806



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.



47.0031, 32.4882, 4.7710



45.2023, 29.1846, 3.2508



68.2074, 74.8969, 11.8391



18.5550, 19.0781, 18.8488



23.7489, 15.5090, 1.7418

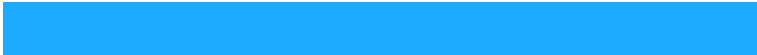


2.4123, 1.7099, 0.2029

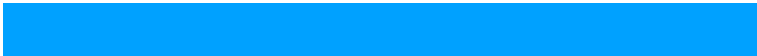


# Inverse Universe

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



33.0378, 36.5633, 99.9232



30.8746, 32.8692, 99.3249



19.9163, 10.3203, 95.5494



17.9618, 19.2953, 23.0276



16.2800, 17.4696, 51.9485



1.6894, 1.9096, 5.0928



# Previews

## White Background



This preview shows how the XYZ color 47.0024, 32.4864, 4.7705 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 47.0024, 32.4864, 4.7705 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 47.0024, 32.4864, 4.7705**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.0024, 32.4864, 4.7705.



This preview shows how white text looks on a background with the XYZ color 47.0024, 32.4864,



# 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

47.0024, 32.4864, 4.7705

### Protanopia

29.5268, 32.5813, 6.5663

### Deuteranopia

33.1987, 32.6032, 4.5433



## Tritanopia

49.1608, 32.5108, 18.7231

# Trichromacy



## Original Color

47.0024, 32.4864, 4.7705

## Protanomaly

34.1500, 31.2772, 5.7506

## Deuteranomaly

37.1897, 31.8216, 4.4405

## Tritanomaly

47.9457, 32.3546, 11.3075

# Monochromacy



## Original Color

47.0024, 32.4864, 4.7705

## Achromatopsia

26.5089, 27.8894, 30.3716

## Achromatomaly

30.3674, 27.6325, 16.0450

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.0024, 32.4864, 4.7705 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, 110, 26)` looks like.

```
.text, #text, p{  
    color:rgb(255, 110, 26)  
}
```

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, 110, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 110, 26) }
```

## Border

The CSS property to change the border of an element to XYZ 47.0024, 32.4864, 4.7705 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, 110, 26) }
```



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

```
.border{ border-color:rgb(255, 110, 26) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 110, 26)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 110, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 110, 26);  
box-shadow:4px 4px 4px 4px rgb(255, 110,  
26) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.0024, 32.4864, 4.7705 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 110, 26) }
```

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

```
.background{ background-color: rgb(255,  
110, 26) }
```

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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