

# Converting Colors

XYZ(47.2060, 32.4035, 6.3493)

Have a look what the booklet for  
XYZ(47.2060, 32.4035, 6.3493)  
contains.

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# **Color**

**XYZ(47.2018, 32.3945,  
6.3497)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6D2E
RGB	255, 109, 46
RGB Percent	100%, 43%, 18%
CMY	0.0000, 0.5725, 0.8196
CMYK	0.00, 0.57, 0.82, 0.00
HSL	18°, 100%, 59%
HSV	18°, 82%, 100%
XYZ	47.2018, 32.3945, 6.3497
YIQ	145.4720, 107.2390, 11.3590

# Conversions

## Conversions Part 2

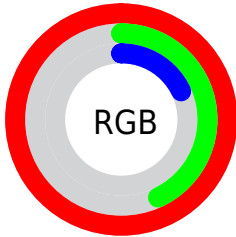
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 136, 46
Decimal	16739630
CIE Lab	63.67, 52.56, 59.80
CIE LCh	64, 79.614, 48.688
Yxy	32.3945, 0.5492, 0.3769
Android (android.graphics.Color)	4294929710 (0xFFFF6D2E)
YUV	145.4720, -49.0397, 96.0561
Hunter-Lab	56.9162, 48.4306, 33.2268

# Details

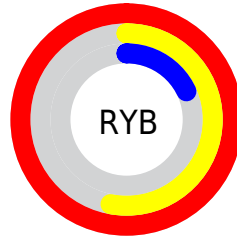
The XYZ color **47.2018, 32.3945, 6.3497** is a dark color, and the websafe version is hex **FF6633**. The color can be described as dark washed orange. A complement of this color would be **38.0246, 45.4967, 101.3848**, and the grayscale version is **27.2702, 28.6904, 31.2438**.

A 20% lighter version of the original color is **56.6731, 48.6740, 17.7173**, and **22.5544, 13.5855, 1.4335** is the 20% darker color. If you saturate the color by 10%, you get **45.1284, 28.8280, 3.8713**, and if you desaturate by 10%, it is **49.9596, 36.8539, 10.5264**.

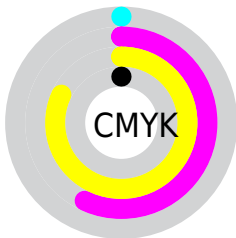
# Distribution



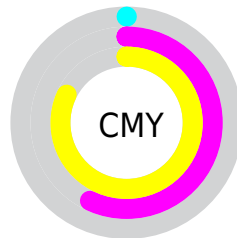
- Red (100%)
- Green (43%)
- Blue (18%)



- Red (100%)
- Yellow (53%)
- Blue (18%)



- Cyan (0%)
- Magenta (57%)
- Yellow (82%)
- Black (0%)



- Cyan (0%)
- Magenta (57%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.2018, 32.3945, 6.3497 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 47.2018, 32.3945, 6.3497 by changing the saturation by 10% instead.



47.2018, 32.3945,  
6.3497

47.2018, 32.3945,  
6.3497

366.2549,  
312.9124, 171.5658

33.4038, 21.6630,  
2.9867

85.2317, 63.4290,  
19.1426

22.5967, 13.6095,  
1.0878

110.1943, 84.5009,  
29.4095

14.4151, 7.8496,  
0.0000

139.6092,  
109.7882, 42.8148

8.4935, 3.9988,  
0.0000

173.8417,  
139.6756, 59.7770

4.4668, 1.6729,  
0.0000

213.2571,  
174.5473, 80.7147

1.9694, 0.4060,  
0.0000

258.2209,

0.6167, 0.0000,

214.7877, 106.0463

0.0000

309.0984,  
260.7813, 136.1905

■ 0.0000, 0.0000,  
0.0000

■ 47.2018, 32.3945,  
6.3497

■ 47.2018, 32.3945,  
6.3497

■ 45.1284, 28.8280,  
3.8713

■ 49.9596, 36.8539,  
10.5264

■ 43.8849, 26.5502,  
2.8117

■ 53.4670, 42.2620,  
16.6491

■ 57.7828, 48.6756,  
24.9256

■ 62.9587, 56.1450,  
35.5364

■ 69.0415, 64.7170,  
48.6428

76.0747, 74.4354,  
64.3916

84.0987, 85.3414,  
82.9181

93.1514, 97.4743,  
104.3484

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.



55.8577, 32.3945, 19.0443



47.2018, 32.3945, 6.3497



35.1847, 32.3945, 2.8368

# Triad

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



47.2018, 32.3945, 6.3497



14.2029, 32.3945, 24.5575



38.1741, 32.3945, 131.1075

# Complementary

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



47.2018, 32.3945, 6.3497



38.0246, 45.4967, 101.3848

# 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.



26.7774, 32.3945, 136.0687



47.2018, 32.3945, 6.3497



14.6328, 32.3945, 58.7990

# Square

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



47.2018, 32.3945, 6.3497



17.3430, 32.3945, 8.2996



18.7058, 32.3945, 104.3064



49.8394, 32.3945, 93.2296



# Rectangle

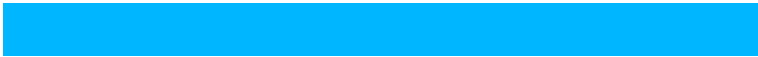
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



47.2018, 32.3945, 6.3497



27.6672, 32.3945, 2.7469



18.7058, 32.3945, 104.3064



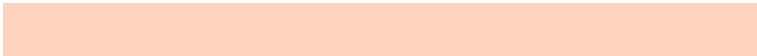
34.1394, 32.3945, 137.2721

# Sweetspot

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



47.2025, 32.3963, 6.3502



73.8341, 71.3577, 59.3165



51.7645, 27.0331, 52.5333



15.2732, 14.5409, 11.5080



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.



47.2025, 32.3963, 6.3502



44.1688, 27.0729, 3.0441



65.5775, 69.1462, 12.4752



18.4558, 18.8797, 18.8158



23.0446, 14.1004, 1.5071



2.3347, 1.5548, 0.1771

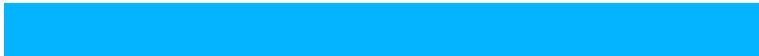


# Inverse Universe

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



38.0246, 45.4967, 101.3848



34.3669, 39.7591, 100.4707



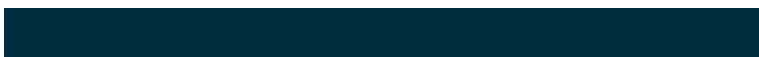
22.6501, 14.7477, 96.2599



18.0655, 19.5026, 23.0622



17.9005, 20.7106, 52.4887



1.8389, 2.2085, 5.1426



# Previews

## White Background



This preview shows how the XYZ color 47.2018, 32.3945, 6.3497 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 47.2018, 32.3945, 6.3497 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 47.2018, 32.3945, 6.3497**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.2018, 32.3945, 6.3497.



This preview shows how white text looks on a background with the XYZ color 47.2018, 32.3945,



# 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

47.2018, 32.3945, 6.3497

### Protanopia

29.7186, 32.6324, 8.7353

### Deuteranopia

33.2001, 32.5738, 5.9040



## Tritanopia

49.0596, 32.3083, 18.6893

# Trichromacy



## Original Color

47.2018, 32.3945, 6.3497

## Protanomaly

34.3829, 31.1398, 7.6884

## Deuteranomaly

37.3367, 31.6603, 5.8935

## Tritanomaly

48.1143, 32.2562, 12.7070

# Monochromacy



## Original Color

47.2018, 32.3945, 6.3497

## Achromatopsia

26.9133, 28.3149, 30.8349

## Achromatomaly

31.0192, 27.9209, 18.2224

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.2018, 32.3945, 6.3497 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, 109, 46)` looks like.

```
.text, #text, p{  
    color:rgb(255, 109, 46)  
}
```

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, 109, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 109, 46) }
```

## Border

The CSS property to change the border of an element to XYZ 47.2018, 32.3945, 6.3497 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, 109, 46) }
```



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

```
.border{ border-color:rgb(255, 109, 46) }
```

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

Here you see how a box with a 4 pixel rgb(255, 109, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 109, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 109, 46);  
box-shadow:4px 4px 4px 4px rgb(255, 109,  
46) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.2018, 32.3945, 6.3497 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 109, 46) }
```

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

```
.background{ background-color: rgb(255,  
109, 46) }
```

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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