

# Converting Colors

XYZ(58.7584, 44.9706, 7.9290)

Have a look what the booklet for  
XYZ(58.7584, 44.9706, 7.9290)  
contains.

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# Color

**XYZ(51.6679, 41.3884,  
7.6484)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF902C
RGB	255, 144, 44
RGB Percent	100%, 56%, 17%
CMY	0.0000, 0.4353, 0.8274
CMYK	0.00, 0.44, 0.83, 0.00
HSL	28°, 100%, 59%
HSV	28°, 83%, 100%
XYZ	51.6679, 41.3884, 7.6484
YIQ	165.7890, 98.2560, -7.5680

# Conversions

## Conversions Part 2

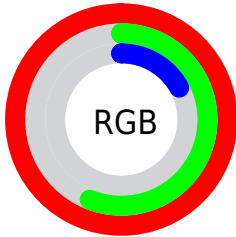
Format	Color
R <sub>Y</sub> B	255, 234, 44
Decimal	16748588
CIE Lab	70.45, 35.45, 66.53
CIE LCh	70, 75.381, 61.948
Yxy	41.3884, 0.5131, 0.4110
Android (android.graphics.Color)	4294938668 (0xFFFF902C)
YUV	165.7890, -60.0420, 78.2380
Hunter-Lab	64.3338, 30.7731, 37.9849

# Details

The XYZ color **51.6679, 41.3884, 7.6484** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **30.8092, 31.1964, 99.0047**, and the grayscale version is **36.3925, 38.2877, 41.6953**.

A 20% lighter version of the original color is **63.9156, 63.0077, 20.5974**, and **25.5654, 18.8608, 2.2930** is the 20% darker color. If you saturate the color by 10%, you get **49.4149, 37.4289, 5.2141**, and if you desaturate by 10%, it is **54.4580, 45.9527, 11.7120**.

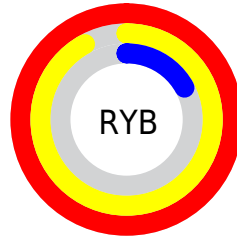
# Distribution



Red (100%)

Green (56%)

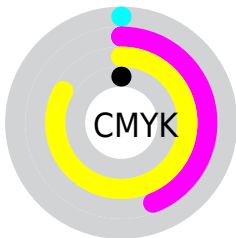
Blue (17%)



Red (100%)

Yellow (92%)

Blue (17%)

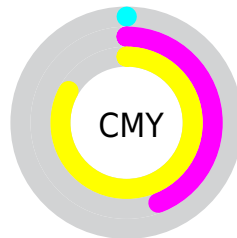


Cyan (0%)

Magenta (44%)

Yellow (83%)

Black (0%)



Cyan (0%)

Magenta (44%)


Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.6679, 41.3884, 7.6484 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 51.6679, 41.3884, 7.6484 by changing the saturation by 10% instead.





 51.6679, 41.3884,  
7.6484


 51.6679, 41.3884,  
7.6484


383.4982,  
351.9413, 182.7780

 36.9636, 28.6227,  
3.7863


 91.8184, 77.2731,  
21.8009

 25.3529, 18.7956,  
1.5088


 117.9954,  
101.1610, 32.9284


 16.4703, 11.5227,  
0.2245


 148.7272,  
129.5250, 47.3147

 9.9505, 6.4195,  
0.0000

 184.3794,  
162.7496, 65.3784

 5.4282, 3.1018,  
0.0000

 225.3173,  
201.2191, 87.5380

 2.5379, 1.1851,  
0.0000

 271.9061,

 0.9144, 0.0495,

245.3179, 114.2122

0.0000

324.5113,  
295.4306, 145.8193

■ 0.0000, 0.0000,  
0.0000

■ 51.6679, 41.3884,  
7.6484

■ 51.6679, 41.3884,  
7.6484

■ 49.4149, 37.4289,  
5.2141

■ 54.4580, 45.9527,  
11.7120

■ 48.0601, 34.9007,  
4.2035

■ 57.8373, 51.1499,  
17.6518

■ 61.8528, 57.0129,  
25.6744

■ 66.5454, 63.5697,  
35.9582

■ 71.9519, 70.8462,  
48.6623

78.1059, 78.8668,  
63.9312

85.0388, 87.6545,  
81.8980

92.7802, 97.2310,  
102.6865

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.



63.2731, 41.3884, 17.7030



51.6679, 41.3884, 7.6484



38.5323, 41.3884, 5.4506

# Triad

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



51.6679, 41.3884, 7.6484



19.9768, 41.3884, 47.4298



53.3724, 41.3884, 131.5427

# Complementary

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



51.6679, 41.3884, 7.6484



30.8092, 31.1964, 99.0047

# 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.



40.1557, 41.3884, 153.7612



51.6679, 41.3884, 7.6484



22.3587, 41.3884, 91.7925

# Square

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



51.6679, 41.3884, 7.6484



21.8064, 41.3884, 19.9516



29.1452, 41.3884, 136.3481



64.3940, 41.3884, 85.4735



# Rectangle

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



51.6679, 41.3884, 7.6484



31.0725, 41.3884, 6.7435



29.1452, 41.3884, 136.3481



48.9538, 41.3884, 142.8860

# Sweetspot

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



51.6688, 41.3906, 7.6491



76.6510, 76.9915, 60.2555



48.1866, 25.4799, 34.0687



15.9381, 15.8706, 11.7296



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.



51.6688, 41.3906, 7.6491



48.2384, 35.2344, 4.3317



75.2513, 88.5556, 15.5100



18.7194, 19.4071, 18.9036



25.2597, 18.5305, 2.2454



2.5679, 2.0211, 0.2548



# Inverse Universe

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



30.8092, 31.1964, 99.0047



26.7945, 24.6616, 97.9557



20.2741, 10.1263, 95.4931



17.7939, 18.9594, 22.9716



14.0469, 13.0033, 51.2041



1.4771, 1.4850, 5.0220



# Previews

## White Background



This preview shows how the XYZ color 51.6679, 41.3884, 7.6484 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 51.6679, 41.3884, 7.6484 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 51.6679, 41.3884, 7.6484

## Background



This preview shows how black text looks on a background with the XYZ color 51.6679, 41.3884, 7.6484.



This preview shows how white text looks on a background with the XYZ color 51.6679, 41.3884,



# 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

51.6679, 41.3884, 7.6484

### Protanopia

37.7892, 41.5955, 9.1690

### Deuteranopia

42.4923, 41.5777, 7.3758



## Tritanopia

55.3740, 41.2266, 32.2331

# Trichromacy



## Original Color

51.6679, 41.3884, 7.6484

## Protanomaly

41.7727, 40.6530, 8.4415

## Deuteranomaly

45.3618, 41.2428, 7.4036

## Tritanomaly

53.3784, 41.1203, 19.5917

# Monochromacy



## Original Color

51.6679, 41.3884, 7.6484

## Achromatopsia

36.2450, 38.1326, 41.5264

## Achromatomaly

39.0284, 37.8646, 23.6639

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.6679, 41.3884, 7.6484 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, 144, 44)` looks like.

```
.text, #text, p{  
    color:rgb(255, 144, 44)  
}
```

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, 144, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 144, 44) }
```

## Border

The CSS property to change the border of an element to XYZ 51.6679, 41.3884, 7.6484 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, 144, 44) }
```



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

```
.border{ border-color:rgb(255, 144, 44) }
```

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

Here you see how a box with a 4 pixel rgb(255, 144, 44) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 144, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 144, 44);  
box-shadow:4px 4px 4px 4px rgb(255, 144,  
44) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.6679, 41.3884, 7.6484 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 144, 44) }
```

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

```
.background{ background-color: rgb(255,  
144, 44) }
```

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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