

# Converting Colors

$Y_{xy}(33.9825, 0.5389, 0.3809)$

Have a look what the booklet for  
Yxy(33.9825, 0.5389, 0.3809)  
contains.

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# Color

**Yxy(33.9898, 0.5389, 0.3809)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF7433
RGB	255, 116, 51
RGB Percent	100%, 45%, 20%
CMY	0.0000, 0.5451, 0.8000
CMYK	0.00, 0.55, 0.80, 0.00
HSL	19°, 100%, 60%
HSV	19°, 80%, 100%
XYZ	48.0890, 33.9898, 7.1567
YIQ	150.1510, 103.7090, 9.2530

# Conversions

## Conversions Part 2

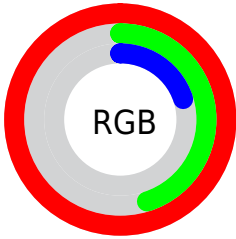
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 146, 51
Decimal	16741427
CIE <sub>Lab</sub>	64.95, 49.48, 58.86
CIE <sub>LCh</sub>	65, 76.895, 49.952
Yxy	33.9898, 0.5389, 0.3809
Android (android.graphics.Color)	4294931507 (0xFFFF7433)
YUV	150.1510, -48.8814, 91.9526
Hunter-Lab	58.3008, 45.2082, 33.5324

# Details

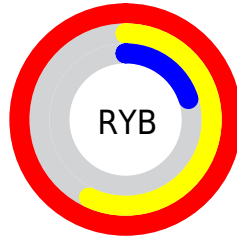
The Yxy color **33.9898, 0.5389, 0.3809** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **44.7503, 0.2058, 0.2434**, and the grayscale version is **30.7417, 0.3127, 0.3290**.

A 20% lighter version of the original color is **51.3451, 0.4513, 0.3981**, and **14.5216, 0.5904, 0.3694** is the 20% darker color. If you saturate the color by 10%, you get **30.1832, 0.5703, 0.3755**, and if you desaturate by 10%, it is **38.6640, 0.5031, 0.3814**.

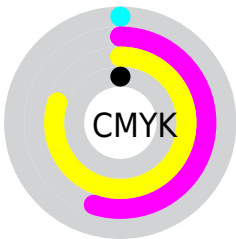
# Distribution



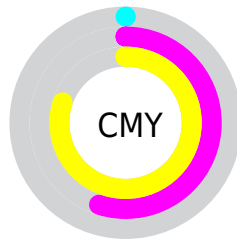
- Red (100%)
- Green (45%)
- Blue (20%)



- Red (100%)
- Yellow (57%)
- Blue (20%)



- Cyan (0%)
- Magenta (55%)
- Yellow (80%)
- Black (0%)



- Cyan (0%)
- Magenta (55%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.9898, 0.5389, 0.3809 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 Yxy color 33.9898, 0.5389, 0.3809 by changing the saturation by 10% instead.





 33.9898, 0.5389,  
0.3809


 33.9898, 0.5389,  
0.3809

320.0866, 0.4257,  
0.3686


 22.8858, 0.5640,  
0.3784


 65.9178, 0.4995,  
0.3804


 14.5092, 0.5934,  
0.3721


 87.5106, 0.4840,  
0.3790


 8.4757, 0.6335,  
0.3623

 113.3684, 0.4708,  
0.3773

 4.4008, 0.6661,  
0.3339

 143.8756, 0.4593,  
0.3755

 1.9002, 0.7100,  
0.2900

 179.4166, 0.4492,  
0.3737

 0.5485, 0.7911,  
0.2089

 220.3759, 0.4404,

 0.0000, 1.0000,

0.3719

0.0000

267.1377, 0.4326,  
0.3702

■ 0.0000, 0.0000,  
0.0000

■ 33.9898, 0.5389,  
0.3809

■ 33.9898, 0.5389,  
0.3809

■ 30.1832, 0.5703,  
0.3755

■ 38.6640, 0.5031,  
0.3814

■ 27.1816, 0.5949,  
0.3658

■ 44.2691, 0.4666,  
0.3778

■ 50.8534, 0.4318,  
0.3714

■ 58.4636, 0.4004,  
0.3633

■ 67.1432, 0.3730,  
0.3545

76.9329, 0.3495,  
0.3456

87.8713, 0.3295,  
0.3371

99.9950, 0.3127,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



33.9898, 0.5137, 0.3072



33.9898, 0.5389, 0.3809



33.9898, 0.4908, 0.4611

# Triad

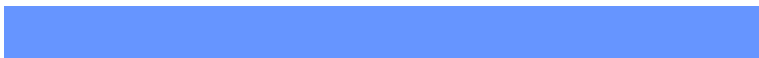
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



33.9898, 0.5389, 0.3809



33.9898, 0.2019, 0.4424



33.9898, 0.1973, 0.1670

# Complementary

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



33.9898, 0.5389, 0.3809



44.7503, 0.2058, 0.2434

# 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.



33.9898, 0.1447, 0.1712



33.9898, 0.5389, 0.3809



33.9898, 0.1436, 0.3031

# Square

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



33.9898, 0.5389, 0.3809



33.9898, 0.2969, 0.5438



33.9898, 0.1270, 0.2114



33.9898, 0.2905, 0.1915



# Rectangle

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



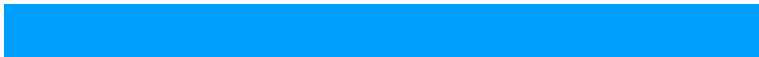
33.9898, 0.5389, 0.3809



33.9898, 0.4338, 0.5128



33.9898, 0.1270, 0.2114



33.9898, 0.1754, 0.1650

# Sweetspot

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



33.9875, 0.5389, 0.3809



72.8852, 0.3584, 0.3491



27.3619, 0.3963, 0.2095



14.8606, 0.3669, 0.3523



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



33.9875, 0.5389, 0.3809



28.2941, 0.5857, 0.3699



71.4336, 0.4406, 0.4711



18.9316, 0.3286, 0.3366



14.4393, 0.5919, 0.3682



1.5930, 0.5699, 0.3857

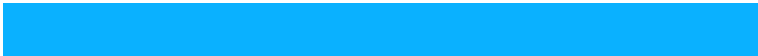


# Inverse Universe

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



44.7503, 0.2058, 0.2434



38.7315, 0.1960, 0.2240



14.9675, 0.1709, 0.1115



19.4480, 0.2980, 0.3212



19.8218, 0.1948, 0.2212



2.1271, 0.1986, 0.2349



# Previews

## White Background



This preview shows how the Yxy color 33.9898, 0.5389, 0.3809 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 Yxy color 33.9898, 0.5389, 0.3809 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](#).

**Yxy 33.9898, 0.5389, 0.3809**

## Background



This preview shows how black text looks on a background with the Yxy color 33.9898, 0.5389, 0.3809.



This preview shows how white text looks on a background with the Yxy color 33.9898, 0.5389, 0.3809.

# 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

33.9898, 0.5389, 0.3809

### Protanopia

34.0316, 0.4160, 0.4566

### Deuteranopia

34.1013, 0.4607, 0.4511



## Tritanopia

33.9369, 0.4772, 0.3227

# Trichromacy



**Original Color**

33.9898, 0.5389, 0.3809

**Protanomaly**

32.9295, 0.4635, 0.4267

**Deuteranomaly**

33.4114, 0.4913, 0.4238

**Tritanomaly**

33.8784, 0.5038, 0.3472

# Monochromacy



**Original Color**

33.9898, 0.5389, 0.3809

**Achromatopsia**

30.4987, 0.3127, 0.3290

**Achromatomaly**

30.0832, 0.3962, 0.3627

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.9898, 0.5389, 0.3809 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, 116, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 116, 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, 116, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 116, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 33.9898, 0.5389, 0.3809 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, 116, 51) }
```

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

```
.border{ border-color:rgb(255, 116, 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, 116, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 116, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 116, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 116,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.9898, 0.5389, 0.3809 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 116, 51) }
```

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

```
.background{ background-color: rgb(255,  
116, 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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