

# Converting Colors

$Y_{xy}(30.3550, 0.5631, 0.3709)$

Have a look what the booklet for  
Yxy(30.3550, 0.5631, 0.3709)  
contains.

<b>Yxy(30.3369, 0.5630, 0.3706)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(30.3369, 0.5630, 0.3706)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6328
RGB	255, 99, 40
RGB Percent	100%, 39%, 16%
CMY	0.0000, 0.6117, 0.8431
CMYK	0.00, 0.61, 0.84, 0.00
HSL	16°, 100%, 58%
HSV	16°, 84%, 100%
XYZ	46.0865, 30.3369, 5.4354
YIQ	138.9180, 111.9150, 14.7230

# Conversions

## Conversions Part 2

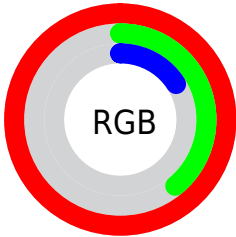
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 121, 40
Decimal	16737064
CIE Lab	61.94, 56.84, 60.74
CIE LCh	62, 83.194, 46.900
Yxy	30.3369, 0.5630, 0.3706
Android (android.graphics.Color)	4294927144 (0xFFFF6328)
YUV	138.9180, -48.7666, 101.8039
Hunter-Lab	55.0789, 52.9693, 32.7043

# Details

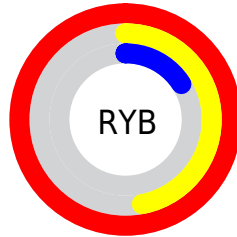
The Yxy color **30.3369, 0.5630, 0.3706** is a dark color, and the websafe version is hex **FF6633**. The color can be described as dark washed orange. A complement of this color would be **47.1573, 0.2062, 0.2515**, and the grayscale version is **25.9458, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.4580, 0.4725, 0.3916**, and **12.5330, 0.6150, 0.3499** is the 20% darker color. If you saturate the color by 10%, you get **27.1041, 0.5923, 0.3630**, and if you desaturate by 10%, it is **34.4888, 0.5269, 0.3737**.

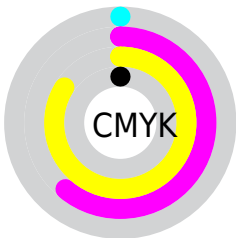
# Distribution



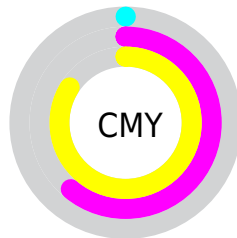
- Red (100%)
- Green (39%)
- Blue (16%)



- Red (100%)
- Yellow (47%)
- Blue (16%)



- Cyan (0%)
- Magenta (61%)
- Yellow (84%)
- Black (0%)




- Cyan (0%)
- Magenta (61%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.3369, 0.5630, 0.3706 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 30.3369, 0.5630, 0.3706 by changing the saturation by 10% instead.





 30.3369, 0.5630,  
0.3706

 30.3369, 0.5630,  
0.3706


303.4717, 0.4368,  
0.3663


 20.0944, 0.5907,  
0.3650


 60.1946, 0.5192,  
0.3739


 12.4637, 0.6228,  
0.3542


 80.5786, 0.5019,  
0.3737


 7.0603, 0.6633,  
0.3367


 105.1118, 0.4871,  
0.3729

 3.4998, 0.6993,  
0.3007

 134.1788, 0.4742,  
0.3717

 1.3979, 0.7519,  
0.2481

 168.1639, 0.4630,  
0.3704

 0.2152, 0.8952,  
0.1048

 207.4515, 0.4532,


 0.0000, 1.0000,

0.3691


0.0000


252.4259, 0.4445,  
0.3677


 0.0000, 0.0000,  
0.0000


 30.3369, 0.5630,  
0.3706


 30.3369, 0.5630,  
0.3706


 27.1041, 0.5923,  
0.3630

 34.4888, 0.5269,  
0.3737

 25.6361, 0.6055,  
0.3574

 39.6270, 0.4882,  
0.3725

 45.8143, 0.4505,  
0.3681

 53.1074, 0.4160,  
0.3617

 61.5584, 0.3857,  
0.3543

71.2161, 0.3598,  
0.3466

82.1266, 0.3379,  
0.3391

94.3331, 0.3196,  
0.3319

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.



30.3369, 0.5292, 0.2942



30.3369, 0.5630, 0.3706



30.3369, 0.5118, 0.4571

# Triad

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



30.3369, 0.5630, 0.3706



30.3369, 0.1971, 0.4746



30.3369, 0.1783, 0.1523

# Complementary

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



30.3369, 0.5630, 0.3706



47.1573, 0.2062, 0.2515

# 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.



30.3369, 0.1272, 0.1591



30.3369, 0.5630, 0.3706



30.3369, 0.1315, 0.3114

# Square

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



30.3369, 0.5630, 0.3706



30.3369, 0.3017, 0.5775



30.3369, 0.1117, 0.2050



30.3369, 0.2744, 0.1754



# Rectangle

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



30.3369, 0.5630, 0.3706



30.3369, 0.4497, 0.5180



30.3369, 0.1117, 0.2050



30.3369, 0.1568, 0.1510

# Sweetspot

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



30.3378, 0.5630, 0.3706



70.5069, 0.3615, 0.3472



26.8408, 0.3873, 0.1993



14.3415, 0.3702, 0.3499



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.



30.3378, 0.5630, 0.3706



25.6361, 0.6055, 0.3574



64.9982, 0.4542, 0.4655



18.7980, 0.3287, 0.3356



13.6074, 0.6026, 0.3597



1.4979, 0.5807, 0.3771

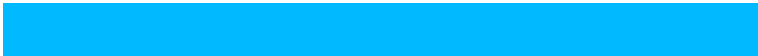


# Inverse Universe

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



47.1573, 0.2062, 0.2515



41.9319, 0.1987, 0.2353



15.0142, 0.1687, 0.1121



19.5890, 0.2980, 0.3223



22.1728, 0.1992, 0.2370



2.3416, 0.2025, 0.2488



# Previews

## White Background



This preview shows how the Yxy color 30.3369, 0.5630, 0.3706 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 30.3369, 0.5630, 0.3706 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 30.3369, 0.5630, 0.3706**

## Background



This preview shows how black text looks on a background with the Yxy color 30.3369, 0.5630, 0.3706.



This preview shows how white text looks on a background with the Yxy color 30.3369, 0.5630, 0.3706.

# 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

30.3369, 0.5630, 0.3706

### Protanopia

30.3946, 0.4205, 0.4615

### Deuteranopia

30.2118, 0.4676, 0.4590



## Tritanopia

30.3645, 0.5100, 0.3251

# Trichromacy



## Original Color

30.3369, 0.5630, 0.3706

## Protanomaly

28.7254, 0.4787, 0.4235

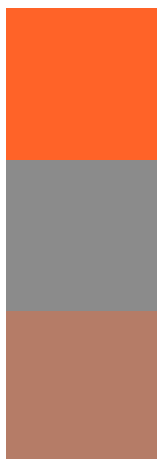
## Deuteranomaly

29.1470, 0.5082, 0.4221

## Tritanomaly

30.1758, 0.5346, 0.3447

# Monochromacy



## Original Color

30.3369, 0.5630, 0.3706

## Achromatopsia

25.8183, 0.3127, 0.3290

## Achromatomaly

25.2183, 0.4095, 0.3597

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.3369, 0.5630, 0.3706 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, 99, 40)` looks like.

```
.text, #text, p{  
    color:rgb(255, 99, 40)  
}
```

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, 99, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 99, 40) }
```

## Border

The CSS property to change the border of an element to Yxy 30.3369, 0.5630, 0.3706 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, 99, 40) }
```

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

```
.border{ border-color:rgb(255, 99, 40) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 99, 40)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 99, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 99, 40);  
box-shadow:4px 4px 4px 4px rgb(255, 99,  
40) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.3369, 0.5630, 0.3706 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 99, 40) }
```

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

```
.background{ background-color: rgb(255, 99,  
40) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor