

# Converting Colors

$Y_{xy}(29.9799, 0.5448, 0.3518)$

Have a look what the booklet for  
Yxy(29.9799, 0.5448, 0.3518)  
contains.

<b>Yxy(30.0431, 0.5446, 0.3521)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(30.0431, 0.5446, 0.3521)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6044
RGB	255, 96, 68
RGB Percent	100%, 38%, 27%
CMY	0.0000, 0.6235, 0.7334
CMYK	0.00, 0.62, 0.73, 0.00
HSL	9°, 100%, 63%
HSV	9°, 73%, 100%
XYZ	46.4683, 30.0431, 8.8141
YIQ	140.3490, 103.7520, 25.0000

# Conversions

## Conversions Part 2

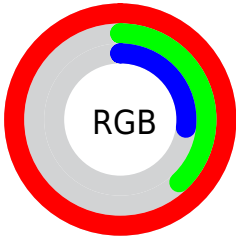
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 101, 68
Decimal	16736324
CIE Lab	61.69, 59.01, 47.43
CIE LCh	62, 75.714, 38.791
Yxy	30.0431, 0.5446, 0.3521
Android (android.graphics.Color)	4294926404 (0xFFFF6044)
YUV	140.3490, -35.6681, 100.5489
Hunter-Lab	54.8116, 55.4087, 28.8338

# Details

The Yxy color **30.0431, 0.5446, 0.3521** 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 **63.3705, 0.2222, 0.2940**, and the grayscale version is **26.4784, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.0245, 0.4508, 0.3641**, and **12.3326, 0.6093, 0.3381** is the 20% darker color. If you saturate the color by 10%, you get **26.3714, 0.5845, 0.3493**, and if you desaturate by 10%, it is **34.9404, 0.5007, 0.3522**.

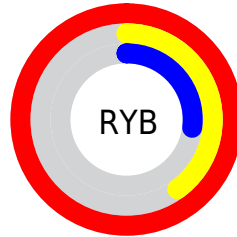
# Distribution



Red (100%)

Green (38%)

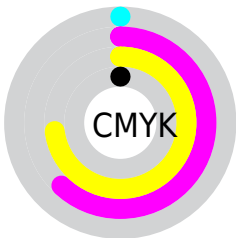
Blue (27%)



Red (100%)

Yellow (40%)

Blue (27%)

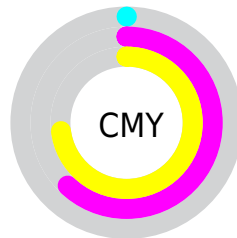


Cyan (0%)

Magenta (62%)

Yellow (73%)

Black (0%)



Cyan (0%)

Magenta (62%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.0431, 0.5446, 0.3521 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 30.0431, 0.5446, 0.3521 by changing the saturation by 10% instead.




 30.0431, 0.5446,  
0.3521


 30.0431, 0.5446,  
0.3521


302.1053, 0.4237,  
0.3523

 19.8713, 0.5736,  
0.3473


 59.7303, 0.5009,  
0.3556


 12.3015, 0.6090,  
0.3383


 80.0146, 0.4843,  
0.3558

 6.9494, 0.6539,  
0.3227


 104.4384, 0.4702,  
0.3556

 3.4305, 0.7066,  
0.2934

 133.3862, 0.4582,  
0.3551

 1.3604, 0.7603,  
0.2397

 167.2424, 0.4478,  
0.3545

 0.1872, 0.9095,  
0.0905

206.3914, 0.4387,


 0.0000, 1.0000,


0.3538


0.0000


251.2176, 0.4307,  
0.3530


 0.0000, 0.0000,  
0.0000


 30.0431, 0.5446,  
0.3521

 30.0431, 0.5446,  
0.3521

 26.3714, 0.5845,  
0.3493


 34.9404, 0.5007,  
0.3522


 23.8143, 0.6148,  
0.3437


 41.1606, 0.4581,  
0.3501


 22.6600, 0.6282,  
0.3394

 48.7909, 0.4197,  
0.3467

 57.9111, 0.3867,  
0.3426

 68.5949, 0.3592,  
0.3383

 80.9113, 0.3366,  
0.3342

 94.9248, 0.3181,  
0.3302

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.



30.0431, 0.4874, 0.2800



30.0431, 0.5446, 0.3521



30.0431, 0.5190, 0.4313

# Triad

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



30.0431, 0.5446, 0.3521



30.0431, 0.2318, 0.4962



30.0431, 0.1704, 0.1619

# Complementary

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



30.0431, 0.5446, 0.3521



63.3705, 0.2222, 0.2940

# 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.



30.0431, 0.1311, 0.1782



30.0431, 0.5446, 0.3521



30.0431, 0.1567, 0.3520

# Square

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



30.0431, 0.5446, 0.3521



30.0431, 0.3355, 0.5581



30.0431, 0.1255, 0.2361



30.0431, 0.2495, 0.1764



# Rectangle

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



30.0431, 0.5446, 0.3521



30.0431, 0.4695, 0.4869



30.0431, 0.1255, 0.2361



30.0431, 0.1533, 0.1636

# Sweetspot

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



30.0431, 0.5446, 0.3521



70.1536, 0.3559, 0.3378



31.1077, 0.3458, 0.1867



14.3490, 0.3627, 0.3389



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.



30.0431, 0.5446, 0.3521



25.0496, 0.6001, 0.3470



56.9736, 0.4603, 0.4376



18.4262, 0.3291, 0.3326



11.9710, 0.6262, 0.3410



1.2890, 0.6076, 0.3557



# Inverse Universe

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



63.3705, 0.2222, 0.2940



59.4139, 0.2145, 0.2861



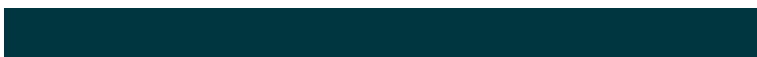
26.2115, 0.1908, 0.1706



19.9902, 0.2980, 0.3253



29.8211, 0.2113, 0.2806



3.0240, 0.2130, 0.2867



# Previews

## White Background



This preview shows how the Yxy color 30.0431, 0.5446, 0.3521 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 30.0431, 0.5446, 0.3521 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 30.0431, 0.5446, 0.3521**

## Background



This preview shows how black text looks on a background with the Yxy color 30.0431, 0.5446, 0.3521.



This preview shows how white text looks on a background with the Yxy color 30.0431, 0.5446, 0.3521.

# 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

30.0431, 0.5446, 0.3521

### Protanopia

30.0433, 0.3919, 0.4251

### Deuteranopia

30.0906, 0.4449, 0.4363



## Tritanopia

29.9896, 0.5126, 0.3242

# Trichromacy



**Original Color**

30.0431, 0.5446, 0.3521

**Protanomaly**

28.4001, 0.4503, 0.3945

**Deuteranomaly**

28.8639, 0.4856, 0.3997

**Tritanomaly**

29.9700, 0.5251, 0.3348

# Monochromacy



**Original Color**

30.0431, 0.5446, 0.3521

**Achromatopsia**

26.2251, 0.3127, 0.3290

**Achromatomaly**

25.5753, 0.3969, 0.3437

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.0431, 0.5446, 0.3521 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, 96, 68)` looks like.

```
.text, #text, p{  
    color:rgb(255, 96, 68)  
}
```

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, 96, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 96, 68) }
```

## Border

The CSS property to change the border of an element to Yxy 30.0431, 0.5446, 0.3521 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, 96, 68) }
```

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

```
.border{ border-color:rgb(255, 96, 68) }
```

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

Here you see how a box with a 4 pixel rgb(255, 96, 68) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 96, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 96, 68);  
box-shadow:4px 4px 4px 4px rgb(255, 96,  
68) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.0431, 0.5446, 0.3521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 96, 68) }
```

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

```
.background{ background-color: rgb(255, 96,  
68) }
```

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