

# Converting Colors

$Y_{xy}(29.8994, 0.5586, 0.3628)$

Have a look what the booklet for  
Yxy(29.8994, 0.5586, 0.3628)  
contains.

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# Color

**Yxy(29.8648, 0.5588, 0.3626)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FF6033                      |
| RGB         | 255, 96, 51                 |
| RGB Percent | 100%, 38%, 20%              |
| CMY         | 0.0000, 0.6235, 0.7999      |
| CMYK        | 0.00, 0.62, 0.80, 0.00      |
| HSL         | 13°, 100%, 60%              |
| HSV         | 13°, 80%, 100%              |
| XYZ         | 46.0244, 29.8648, 6.4737    |
| YIQ         | 138.4110, 109.2090, 19.7130 |

# Conversions

## Conversions Part 2

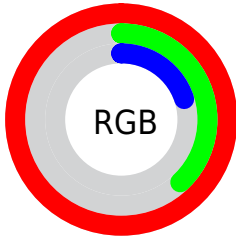
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>R<sub>YB</sub></b>               | 255, 109, 51                    |
| Decimal                             | 16736307                        |
| CIE Lab                             | 61.54, 58.42, 55.63             |
| CIE LCh                             | 62, 80.666, 43.596              |
| Yxy                                 | 29.8648, 0.5588,<br>0.3626      |
| Android<br>(android.graphics.Color) | 4294926387<br>(0xFFFF6033)      |
| YUV                                 | 138.4110, -43.0936,<br>102.2486 |
| Hunter-Lab                          | 54.6487, 54.6951,<br>31.2305    |

# Details

The Yxy color **29.8648, 0.5588, 0.3626** 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 **54.0335, 0.2131, 0.2711**, and the grayscale version is **25.7174, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.6561, 0.4665, 0.3800**, and **12.2089, 0.6198, 0.3461** is the 20% darker color. If you saturate the color by 10%, you get **26.5176, 0.5925, 0.3570**, and if you desaturate by 10%, it is **34.2509, 0.5190, 0.3643**.

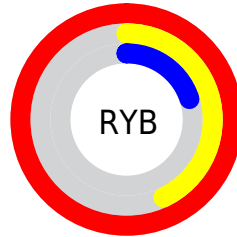
# Distribution



Red (100%)

Green (38%)

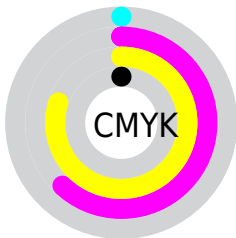
Blue (20%)



Red (100%)

Yellow (43%)

Blue (20%)

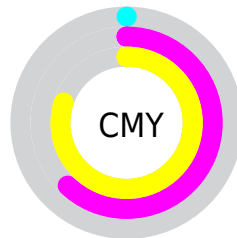


Cyan (0%)

Magenta (62%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (62%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.8648, 0.5588, 0.3626 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 29.8648, 0.5588, 0.3626 by changing the saturation by 10% instead.





 29.8648, 0.5588,  
0.3626


 29.8648, 0.5588,  
0.3626


301.2737, 0.4328,  
0.3606


 19.7360, 0.5875,  
0.3571


 59.4483, 0.5143,  
0.3662


 12.2033, 0.6214,  
0.3466


 79.6718, 0.4970,  
0.3662


 6.8823, 0.6686,  
0.3314


 104.0289, 0.4822,  
0.3657

 3.3886, 0.7056,  
0.2944

 132.9042, 0.4695,  
0.3649

 1.3378, 0.7595,  
0.2405

 166.6819, 0.4585,  
0.3639

 0.1702, 0.9149,  
0.0851

 205.7464, 0.4488,


 0.0000, 1.0000,


0.3628


0.0000


250.4823, 0.4403,  
0.3617


 0.0000, 0.0000,  
0.0000


 29.8648, 0.5588,  
0.3626


 29.8648, 0.5588,  
0.3626


 26.5176, 0.5925,  
0.3570


 34.2509, 0.5190,  
0.3643


 24.1117, 0.6167,  
0.3485

 39.7585, 0.4779,  
0.3626

 24.1095, 0.6167,  
0.3485

 46.4592, 0.4392,  
0.3584

 54.4192, 0.4048,  
0.3529

 63.6994, 0.3753,  
0.3468

74.3570, 0.3504,  
0.3406

86.4455, 0.3298,  
0.3346

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.



29.8648, 0.5145, 0.2876



29.8648, 0.5588, 0.3626



29.8648, 0.5172, 0.4465

# Triad

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



29.8648, 0.5588, 0.3626



29.8648, 0.2101, 0.4871



29.8648, 0.1734, 0.1546

# Complementary

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



29.8648, 0.5588, 0.3626



54.0335, 0.2131, 0.2711

# 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.



29.8648, 0.1270, 0.1652



29.8648, 0.5588, 0.3626



29.8648, 0.1399, 0.3282

# Square

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



29.8648, 0.5588, 0.3626



29.8648, 0.3155, 0.5731



29.8648, 0.1155, 0.2162



29.8648, 0.2628, 0.1742



# Rectangle

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



29.8648, 0.5588, 0.3626



29.8648, 0.4594, 0.5059



29.8648, 0.1155, 0.2162



29.8648, 0.1536, 0.1545

# Sweetspot

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



29.8642, 0.5588, 0.3626



69.9135, 0.3599, 0.3430



28.3235, 0.3694, 0.1932



14.1602, 0.3688, 0.3453



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.



29.8642, 0.5588, 0.3626



24.9682, 0.6081, 0.3519



61.5262, 0.4577, 0.4553



18.6363, 0.3289, 0.3343



12.7763, 0.6141, 0.3506



1.3972, 0.5931, 0.3673

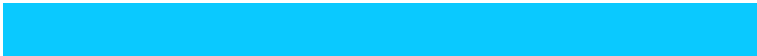


# Inverse Universe

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



54.0335, 0.2131, 0.2711



49.0736, 0.2055, 0.2581



18.8234, 0.1768, 0.1339



19.7619, 0.2980, 0.3236



25.2949, 0.2045, 0.2562



2.6226, 0.2071, 0.2654



# Previews

## White Background



This preview shows how the Yxy color 29.8648, 0.5588, 0.3626 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 29.8648, 0.5588, 0.3626 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 × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 29.8648, 0.5588, 0.3626**

## Background



This preview shows how black text looks on a background with the Yxy color 29.8648, 0.5588, 0.3626.



This preview shows how white text looks on a background with the Yxy color 29.8648, 0.5588, 0.3626.

# 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

29.8648, 0.5588, 0.3626

### Protanopia

29.8876, 0.4090, 0.4486

### Deuteranopia

29.7481, 0.4599, 0.4508



## Tritanopia

29.7961, 0.5145, 0.3243

# Trichromacy



**Original Color**

29.8648, 0.5588, 0.3626

**Protanomaly**

28.3080, 0.4681, 0.4126

**Deuteranomaly**

28.8314, 0.5011, 0.4139

**Tritanomaly**

29.6828, 0.5338, 0.3397

# Monochromacy



**Original Color**

29.8648, 0.5588, 0.3626

**Achromatopsia**

25.4152, 0.3127, 0.3290

**Achromatomaly**

25.0303, 0.4064, 0.3539

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.8648, 0.5588, 0.3626 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 96, 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, 96, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 96, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 29.8648, 0.5588, 0.3626 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, 51) }
```

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

```
.border{ border-color:rgb(255, 96, 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, 96, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 96, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 96, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 96,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.8648, 0.5588, 0.3626 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, 51) }
```

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

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