

# Converting Colors

$Y_{xy}(28.6098, 0.5733, 0.3506)$

Have a look what the booklet for  
Yxy(28.6098, 0.5733, 0.3506)  
contains.

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**Color**

**Yxy(27.6855, 0.5707, 0.3517)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF5333
RGB	255, 83, 51
RGB Percent	100%, 33%, 20%
CMY	0.0001, 0.6744, 0.8000
CMYK	0.00, 0.67, 0.80, 0.00
HSL	9°, 100%, 60%
HSV	9°, 80%, 100%
XYZ	44.9250, 27.6855, 6.1086
YIQ	130.7800, 112.7840, 26.5120

# Conversions

## Conversions Part 2

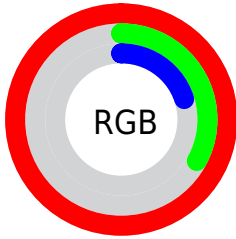
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 89, 51
Decimal	16732979
CIE <sub>Lab</sub>	59.60, 63.60, 53.79
CIE <sub>LCh</sub>	60, 83.298, 40.220
Yxy	27.6855, 0.5707, 0.3517
Android (android.graphics.Color)	4294923059 (0xFFFF5333)
YUV	130.7800, -39.3315, 108.9409
Hunter-Lab	52.6170, 60.3255, 29.9486

# Details

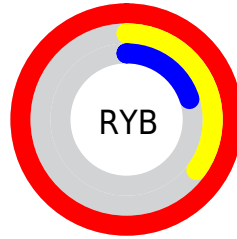
The Yxy color **27.6855, 0.5707, 0.3517** is a dark color, and the websafe version is hex **FF6633**. The color can be described as dark washed red. A complement of this color would be **60.6691, 0.2177, 0.2884**, and the grayscale version is **22.7328, 0.3127, 0.3290**.

A 20% lighter version of the original color is **41.2299, 0.4759, 0.3697**, and **11.0557, 0.6382, 0.3314** is the 20% darker color. If you saturate the color by 10%, you get **24.7240, 0.6048, 0.3468**, and if you desaturate by 10%, it is **31.7926, 0.5289, 0.3536**.

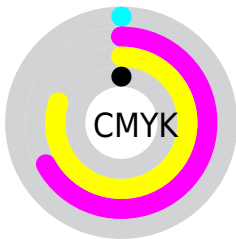
# Distribution



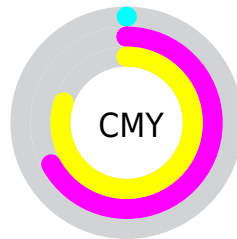
- Red (100%)
- Green (33%)
- Blue (20%)



- Red (100%)
- Yellow (35%)
- Blue (20%)



- Cyan (0%)
- Magenta (67%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (67%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.6855, 0.5707, 0.3517 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 27.6855, 0.5707, 0.3517 by changing the saturation by 10% instead.





 27.6855, 0.5707,  
0.3517

 27.6855, 0.5707,  
0.3517


290.9611, 0.4370,  
0.3559

 18.0887, 0.6016,  
0.3444


 55.9819, 0.5231,  
0.3578

 11.0137, 0.6381,  
0.3314


 75.4504, 0.5047,  
0.3587


 6.0761, 0.6879,  
0.3121

 98.9782, 0.4891,  
0.3588

 2.8914, 0.7290,  
0.2710

 126.9497, 0.4756,  
0.3586

 1.0753, 0.7883,  
0.2117

 159.7493, 0.4640,  
0.3581

 0.0000, 1.0000,  
0.0000


 197.7615, 0.4538,


 0.0000, 0.0000,


0.3574


0.0000

241.3706, 0.4449,  
0.3567

 27.6855, 0.5707,  
0.3517


 27.6855, 0.5707,  
0.3517

 24.7240, 0.6048,  
0.3468


 31.7926, 0.5289,  
0.3536


 22.7768, 0.6272,  
0.3402

 37.1432, 0.4853,  
0.3528

 22.7761, 0.6272,  
0.3402

 43.8303, 0.4441,  
0.3500

 51.9361, 0.4077,  
0.3461

 61.5365, 0.3768,  
0.3418

72.7018, 0.3511,  
0.3373

85.4978, 0.3300,  
0.3330

99.9866, 0.3127,  
0.3290

99.9957, 0.3127,  
0.3290

# Harmonies

## Analogous

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



27.6855, 0.5144, 0.2761



27.6855, 0.5707, 0.3517



27.6855, 0.5328, 0.4370

# Triad

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



27.6855, 0.5707, 0.3517



27.6855, 0.2146, 0.5153



27.6855, 0.1599, 0.1472

# Complementary

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



27.6855, 0.5707, 0.3517



60.6691, 0.2177, 0.2884

# 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.



27.6855, 0.1169, 0.1614



27.6855, 0.5707, 0.3517



27.6855, 0.1374, 0.3447

# Square

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



27.6855, 0.5707, 0.3517



27.6855, 0.3255, 0.5884



27.6855, 0.1085, 0.2191



27.6855, 0.2468, 0.1642



# Rectangle

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



27.6855, 0.5707, 0.3517



27.6855, 0.4741, 0.5003



27.6855, 0.1085, 0.2191



27.6855, 0.1413, 0.1482

# Sweetspot

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



27.6871, 0.5707, 0.3517



68.0522, 0.3608, 0.3391



29.0265, 0.3531, 0.1833



13.7240, 0.3701, 0.3407



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.



27.6871, 0.5707, 0.3517



23.4492, 0.6195, 0.3428



55.6047, 0.4701, 0.4439



18.4475, 0.3291, 0.3328



12.0391, 0.6251, 0.3419

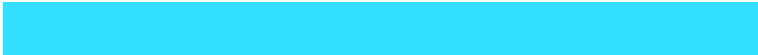


1.2990, 0.6062, 0.3568

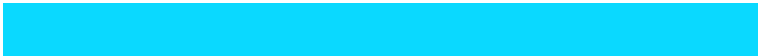


# Inverse Universe

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



60.6691, 0.2177, 0.2884



56.6834, 0.2114, 0.2794



21.9391, 0.1812, 0.1505



19.9669, 0.2980, 0.3252



29.3380, 0.2106, 0.2781



2.9814, 0.2124, 0.2845



# Previews

## White Background



This preview shows how the Yxy color 27.6855, 0.5707, 0.3517 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 27.6855, 0.5707, 0.3517 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 27.6855, 0.5707, 0.3517**

## Background



This preview shows how black text looks on a background with the Yxy color 27.6855, 0.5707, 0.3517.



This preview shows how white text looks on a background with the Yxy color 27.6855, 0.5707, 0.3517.

# 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

27.6855, 0.5707, 0.3517

### Protanopia

27.7348, 0.4048, 0.4435

### Deuteranopia

27.5595, 0.4601, 0.4500



## Tritanopia

27.6374, 0.5399, 0.3265

# Trichromacy



## Original Color

27.6855, 0.5707, 0.3517

## Protanomaly

25.7362, 0.4718, 0.4037

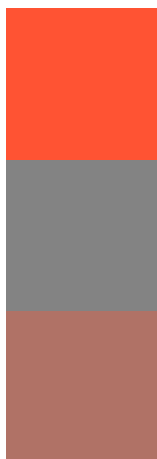
## Deuteranomaly

26.2926, 0.5080, 0.4076

## Tritanomaly

27.6127, 0.5528, 0.3366

# Monochromacy



## Original Color

27.6855, 0.5707, 0.3517

## Achromatopsia

22.6966, 0.3127, 0.3290

## Achromatomaly

22.2240, 0.4111, 0.3472

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.6855, 0.5707, 0.3517 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, 83, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 83, 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, 83, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 83, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 27.6855, 0.5707, 0.3517 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, 83, 51) }
```

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

```
.border{ border-color:rgb(255, 83, 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, 83, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 83, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 83, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 83,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.6855, 0.5707, 0.3517 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 83, 51) }
```

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

```
.background{ background-color: rgb(255, 83,  
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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