

# Converting Colors

$Y_{xy}(60.7393, 0.4589, 0.3597)$

Have a look what the booklet for  
Yxy(60.7393, 0.4589, 0.3597)  
contains.

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# Color

**Yxy(51.7587, 0.4240, 0.3658)**

# Conversions

Conversions Part 1	
Format	Color
Hex	FFAA87
RGB	255, 170, 135
RGB Percent	100%, 67%, 53%
CMY	0.0000, 0.3334, 0.4707
CMYK	0.00, 0.33, 0.47, 0.00
HSL	18°, 100%, 76%
HSV	18°, 47%, 100%
XYZ	59.9937, 51.7587, 29.7422
YIQ	191.4250, 61.8950, 7.1350

# Conversions

## Conversions Part 2

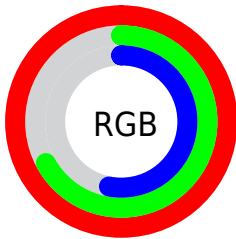
Format	Color
<a href="#">RYB</a>	<a href="#">255, 184, 135</a>
Decimal	<a href="#">16755335</a>
CIELab	<a href="#">77.14, 27.45, 30.81</a>
CIELCh	<a href="#">77, 41.268, 48.299</a>
Yxy	<a href="#">51.7587, 0.4240, 0.3658</a>
Android (android.graphics.Color)	<a href="#">4294945415</a> (0xFFFFAA87)
YUV	<a href="#">191.4250, -27.8175, 55.7553</a>
Hunter-Lab	<a href="#">71.9435, 22.9499, 25.8494</a>

# Details

The Yxy color **51.7587, 0.4240, 0.3658** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **63.5476, 0.2424, 0.2873**, and the grayscale version is **52.4939, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.3268, 0.3588, 0.3667**, and **24.9806, 0.4533, 0.3712** is the 20% darker color. If you saturate the color by 10%, you get **44.8099, 0.4589, 0.3722**, and if you desaturate by 10%, it is **59.8052, 0.3930, 0.3581**.

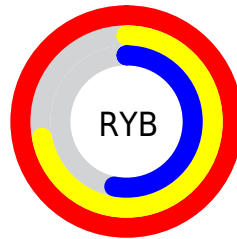
# Distribution



Red (100%)

Green (67%)

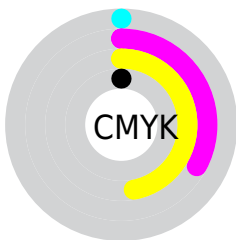
Blue (53%)



Red (100%)

Yellow (72%)

Blue (53%)

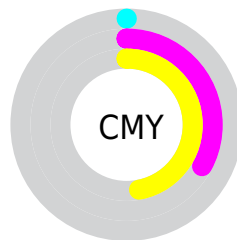


Cyan (0%)

Magenta (33%)

Yellow (47%)

Black (0%)



Cyan (0%)

Magenta (33%)


Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.7587, 0.4240, 0.3658 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 51.7587, 0.4240, 0.3658 by changing the saturation by 10% instead.





 51.7587, 0.4240,  
0.3658

 51.7587, 0.4240,  
0.3658


393.5043, 0.3691,  
0.3505


 36.8128, 0.4372,  
0.3686


 92.7753, 0.4044,  
0.3610

 25.0626, 0.4538,  
0.3716


 119.6147, 0.3969,  
0.3589

 16.1237, 0.4751,  
0.3746


 151.1875, 0.3905,  
0.3571

 9.6117, 0.5031,  
0.3769

187.8779, 0.3850,  
0.3555

 5.1423, 0.5410,  
0.3766

230.0704, 0.3803,  
0.3541

 2.3310, 0.6170,  
0.3830


278.1494, 0.3761,


 0.7900, 0.6644,


0.3527

0.3356


332.4992, 0.3724,  
0.3516


 0.0000, 1.0000,  
0.0000


 0.0000, 0.0000,  
0.0000


 51.7587, 0.4240,  
0.3658


 51.7587, 0.4240,  
0.3658

 44.8099, 0.4589,  
0.3722


 59.8052, 0.3930,  
0.3581


 38.9153, 0.4963,  
0.3762

 69.0030, 0.3662,  
0.3500

 34.0184, 0.5339,  
0.3765

 79.3937, 0.3435,  
0.3419

 30.0590, 0.5680,  
0.3723

 91.0189, 0.3243,  
0.3342

26.9689, 0.5948, 100.0000, 0.3127,  
0.3635 0.3290

26.2105, 0.6015,  
0.3606

# Harmonies

## Analogous

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



51.7587, 0.4051, 0.3223



51.7587, 0.4240, 0.3658



51.7587, 0.4098, 0.4053

# Triad

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



51.7587, 0.4240, 0.3658



51.7587, 0.2640, 0.3819



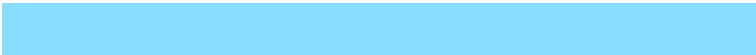
51.7587, 0.2524, 0.2415

# Complementary

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



51.7587, 0.4240, 0.3658



63.5476, 0.2424, 0.2873

# 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.



51.7587, 0.2216, 0.2483



51.7587, 0.4240, 0.3658



51.7587, 0.2273, 0.3254

# Square

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



51.7587, 0.4240, 0.3658



51.7587, 0.3158, 0.4222



51.7587, 0.2128, 0.2769



51.7587, 0.3016, 0.2541



# Rectangle

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



51.7587, 0.4240, 0.3658



51.7587, 0.3850, 0.4237



51.7587, 0.2128, 0.2769



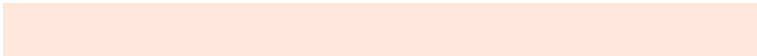
51.7587, 0.2398, 0.2414

# Sweetspot

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



51.7565, 0.4240, 0.3658



82.8256, 0.3372, 0.3395



43.8025, 0.3492, 0.2430



17.2086, 0.3416, 0.3412



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.



51.7565, 0.4240, 0.3658



45.4998, 0.4550, 0.3716



79.0449, 0.3938, 0.4228



18.8504, 0.3287, 0.3360



13.9175, 0.5986, 0.3629

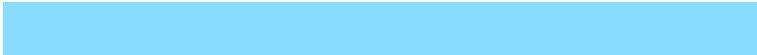


1.5339, 0.5765, 0.3805

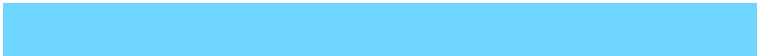


# Inverse Universe

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



63.5476, 0.2424, 0.2873



58.4369, 0.2312, 0.2777



37.8535, 0.2286, 0.2122



19.5336, 0.2980, 0.3219



21.2274, 0.1975, 0.2308



2.2557, 0.2009, 0.2434



# Previews

## White Background



This preview shows how the Yxy color 51.7587, 0.4240, 0.3658 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

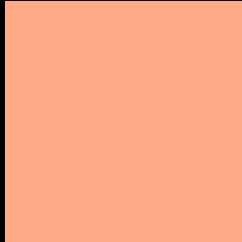
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.7587, 0.4240, 0.3658 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

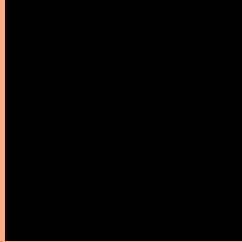
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.7587, 0.4240, 0.3658**

## Background



This preview shows how black text looks on a background with the Yxy color 51.7587, 0.4240, 0.3658.



This preview shows how white text looks on a background with the Yxy color 51.7587, 0.4240, 0.3658.

# 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

51.7587, 0.4240, 0.3658

### Protanopia

52.1126, 0.3609, 0.3873

### Deuteranopia

52.0544, 0.3948, 0.3866



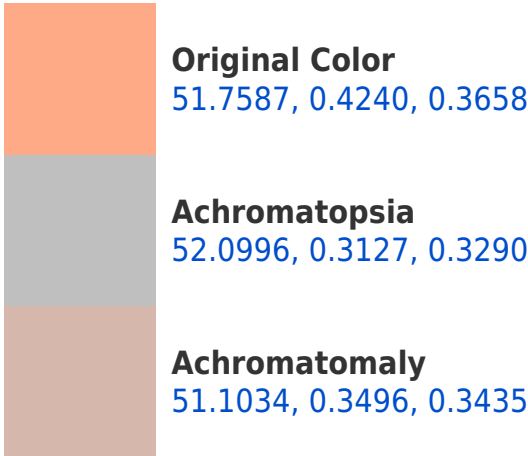
## Tritanopia

51.7468, 0.3849, 0.3166

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.7587, 0.4240, 0.3658 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, 170, 135)` looks like.

```
.text, #text, p{  
    color:rgb(255, 170, 135)  
}
```

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, 170, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 170, 135) }
```

## Border

The CSS property to change the border of an element to Yxy 51.7587, 0.4240, 0.3658 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, 170, 135) }
```

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

```
.border{ border-color:rgb(255, 170, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 170, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 170, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 170, 135);  
box-shadow:4px 4px 4px 4px rgb(255, 170,  
135) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.7587, 0.4240, 0.3658 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 170, 135) }
```

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

```
.background{ background-color: rgb(255,  
170, 135) }
```

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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