

# Converting Colors

$Y_{xy}(47.6541, 0.4782, 0.4313)$

Have a look what the booklet for  
Yxy(47.6541, 0.4782, 0.4313)  
contains.

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# Color

**Yxy(47.6874, 0.4781, 0.4312)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F7A737
RGB	247, 167, 55
RGB Percent	97%, 65%, 22%
CMY	0.0313, 0.3451, 0.7843
CMYK	0.00, 0.32, 0.78, 0.03
HSL	35°, 92%, 59%
HSV	35°, 78%, 97%
XYZ	52.8742, 47.6874, 10.0307
YIQ	178.1520, 83.6320, -17.8720

# Conversions

## Conversions Part 2

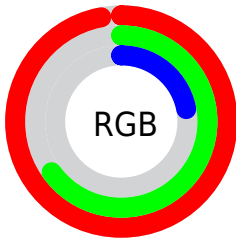
Format	Color
<a href="#">RYB</a>	<a href="#">192, 247, 55</a>
Decimal	<a href="#">16230199</a>
CIELab	<a href="#">74.63, 20.58, 65.93</a>
CIElCh	<a href="#">75, 69.065, 72.661</a>
Yxy	<a href="#">47.6874, 0.4781, 0.4312</a>
Android (android.graphics.Color)	<a href="#">4294420279</a> ( <a href="#">0xFFFF7A737</a> )
YUV	<a href="#">178.1520, -60.7139, 60.3797</a>
Hunter-Lab	<a href="#">69.0561, 15.8240, 39.7271</a>

# Details

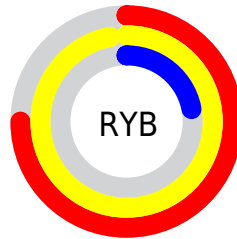
The Yxy color **47.6874, 0.4781, 0.4312** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **24.8660, 0.1887, 0.1735**, and the grayscale version is **44.9013, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.6283, 0.4122, 0.4383**, and **22.5758, 0.5056, 0.4367** is the 20% darker color. If you saturate the color by 10%, you get **43.8860, 0.4984, 0.4322**, and if you desaturate by 10%, it is **51.9124, 0.4552, 0.4251**.

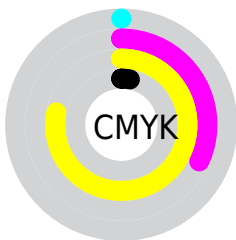
# Distribution



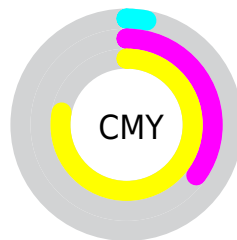
- Red (97%)
- Green (65%)
- Blue (22%)



- Red (75%)
- Yellow (97%)
- Blue (22%)



- Cyan (0%)
- Magenta (32%)
- Yellow (78%)
- Black (3%)




- Cyan (3%)
- Magenta (35%)
- Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.6874, 0.4781, 0.4312 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 47.6874, 0.4781, 0.4312 by changing the saturation by 10% instead.





 47.6874, 0.4781,  
0.4312


 47.6874, 0.4781,  
0.4312


377.5517, 0.4013,  
0.3904

 33.5794, 0.4937,  
0.4371


 86.7388, 0.4526,  
0.4195


 22.5707, 0.5114,  
0.4422


 112.4510, 0.4422,  
0.4141


 14.2768, 0.5310,  
0.4450


 142.8000, 0.4332,  
0.4092

 8.3134, 0.5547,  
0.4453

 178.1703, 0.4252,  
0.4047

 4.2962, 0.5702,  
0.4298

 218.9462, 0.4182,  
0.4006

 1.8406, 0.5948,  
0.4052

265.5121, 0.4119,

 0.5123, 0.6608,

0.3969

0.3392

318.2525, 0.4063,  
0.3935

0.0000, 0.0000,  
0.0000

47.6874, 0.4781,  
0.4312

47.6874, 0.4781,  
0.4312

43.8860, 0.4984,  
0.4322

51.9124, 0.4552,  
0.4251

40.4732, 0.5151,  
0.4278


56.5760, 0.4310,  
0.4148

39.7480, 0.5187,  
0.4264


61.7005, 0.4069,  
0.4016


67.3036, 0.3837,  
0.3867

73.4021, 0.3622,  
0.3710

 80.0115, 0.3426,  
0.3554

 87.1464, 0.3250,  
0.3402

 94.8208, 0.3093,  
0.3258

 98.5198, 0.3078,  
0.3290

# Harmonies

## Analogous

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



47.6874, 0.4995, 0.3642



47.6874, 0.4781, 0.4312



47.6874, 0.4129, 0.4891

# Triad

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



47.6874, 0.4781, 0.4312



47.6874, 0.1810, 0.3361



47.6874, 0.2742, 0.2054

# Complementary

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



47.6874, 0.4781, 0.4312



24.8660, 0.1887, 0.1735

# 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.



47.6874, 0.2026, 0.1902



47.6874, 0.4781, 0.4312



47.6874, 0.1559, 0.2490

# Square

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



47.6874, 0.4781, 0.4312



47.6874, 0.2417, 0.4427



47.6874, 0.1636, 0.2025



47.6874, 0.3705, 0.2442



# Rectangle

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



47.6874, 0.4781, 0.4312



47.6874, 0.3566, 0.5068



47.6874, 0.1636, 0.2025



47.6874, 0.2468, 0.1975

# Sweetspot

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



47.6898, 0.4781, 0.4312



82.1647, 0.3527, 0.3636



24.3524, 0.4658, 0.2559



17.0455, 0.3600, 0.3693



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.



47.6898, 0.4781, 0.4312



45.1334, 0.5079, 0.4304



84.3474, 0.4031, 0.5002



18.0884, 0.3279, 0.3428



21.3026, 0.5166, 0.4280



2.0750, 0.5010, 0.4404



# Inverse Universe

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



24.8660, 0.1887, 0.1735



19.9979, 0.1737, 0.1410



10.6705, 0.1708, 0.0888



17.0615, 0.2980, 0.3148



8.9416, 0.1698, 0.1312



0.9839, 0.1766, 0.1556



# Previews

## White Background



This preview shows how the Yxy color 47.6874, 0.4781, 0.4312 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 47.6874, 0.4781, 0.4312 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 47.6874, 0.4781, 0.4312**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.6874, 0.4781, 0.4312.



This preview shows how white text looks on a background with the Yxy color 47.6874, 0.4781, 0.4312.

# 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

47.6874, 0.4781, 0.4312

### Protanopia

47.7290, 0.4242, 0.4664

### Deuteranopia

47.8968, 0.4583, 0.4488



## Tritanopia

47.6749, 0.3973, 0.3166

# Trichromacy



## Original Color

47.6874, 0.4781, 0.4312

## Protanomaly

47.5184, 0.4440, 0.4537

## Deuteranomaly

47.7666, 0.4658, 0.4422

## Tritanomaly

47.1831, 0.4336, 0.3641

# Monochromacy



## Original Color

47.6874, 0.4781, 0.4312

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

44.6621, 0.3756, 0.3812

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.6874, 0.4781, 0.4312 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(247, 167, 55)` looks like.

```
.text, #text, p{  
    color:rgb(247, 167, 55)  
}
```

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(247, 167, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 167, 55) }
```

## Border

The CSS property to change the border of an element to Yxy 47.6874, 0.4781, 0.4312 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(247, 167, 55) }
```

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

```
.border{ border-color:rgb(247, 167, 55) }
```

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

Here you see how a box with a 4 pixel rgb(247, 167, 55) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 167, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 167, 55);  
box-shadow:4px 4px 4px 4px rgb(247, 167,  
55) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.6874, 0.4781, 0.4312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 167, 55) }
```

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

```
.background{ background-color: rgb(247,  
167, 55) }
```

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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