

Converting Colors

$Y_{xy}(49.8653, 0.4745, 0.4190)$

Have a look what the booklet for
Yxy(49.8653, 0.4745, 0.4190)
contains.

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Color

Yxy(49.7202, 0.4750, 0.4189)

Conversions

Conversions Part 1

Format	Color
Hex	FFA847
RGB	255, 168, 71
RGB Percent	100%, 66%, 28%
CMY	0.0000, 0.3411, 0.7214
CMYK	0.00, 0.34, 0.72, 0.00
HSL	32°, 100%, 64%
HSV	32°, 72%, 100%
XYZ	56.3788, 49.7202, 12.5933
YIQ	182.9550, 82.9890, -11.7230

Conversions

Conversions Part 2

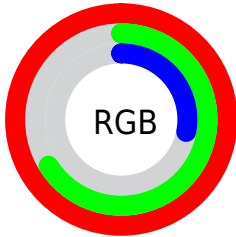
Format	Color
R _Y B	236, 255, 71
Decimal	16754759
CIE Lab	75.90, 24.00, 61.00
CIE LCh	76, 65.551, 68.522
Yxy	49.7202, 0.4750, 0.4189
Android (android.graphics.Color)	4294944839 (0xFFFFA847)
YUV	182.9550, -55.1938, 63.1835
Hunter-Lab	70.5126, 19.3240, 38.7698

Details

The Yxy color **49.7202, 0.4750, 0.4189** 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 **33.0224, 0.1991, 0.2000**, and the grayscale version is **47.6061, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.4906, 0.4035, 0.4274**, and **23.8502, 0.5094, 0.4294** is the 20% darker color. If you saturate the color by 10%, you get **45.2130, 0.4998, 0.4216**, and if you desaturate by 10%, it is **54.7826, 0.4485, 0.4115**.

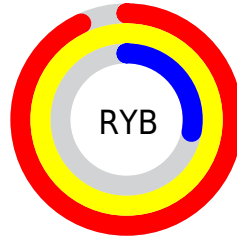
Distribution



Red (100%)

Green (66%)

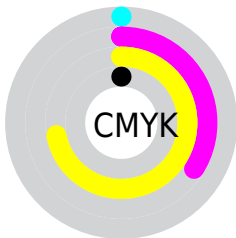
Blue (28%)



Red (93%)

Yellow (100%)

Blue (28%)

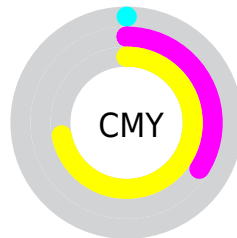


Cyan (0%)

Magenta (34%)

Yellow (72%)

Black (0%)



Cyan (0%)

Magenta (34%)

Yellow (72%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 49.7202, 0.4750, 0.4189 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 49.7202, 0.4750, 0.4189 by changing the saturation by 10% instead.


 49.7202, 0.4750,
0.4189


 49.7202, 0.4750,
0.4189


385.5707, 0.3987,
0.3832

 35.1911, 0.4912,
0.4242


 89.7602, 0.4492,
0.4085


 23.8101, 0.5099,
0.4289


 116.0399, 0.4389,
0.4039


 15.1928, 0.5313,
0.4317


 147.0052, 0.4299,
0.3996

 8.9548, 0.5617,
0.4353

 183.0406, 0.4221,
0.3957

 4.7117, 0.5802,
0.4198

 224.5305, 0.4152,
0.3921

 2.0791, 0.6063,
0.3937

271.8592, 0.4091,

 0.6529, 0.6590,

0.3889

0.3410

325.4112, 0.4036,
0.3859

■ 0.0000, 1.0000,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 49.7202, 0.4750,
0.4189

■ 49.7202, 0.4750,
0.4189

■ 45.2130, 0.4998,
0.4216

■ 54.7826, 0.4485,
0.4115

■ 41.2238, 0.5212,
0.4187

■ 60.4186, 0.4220,
0.4007

■ 38.4242, 0.5355,
0.4130

■ 66.6543, 0.3966,
0.3877

■ 73.5115, 0.3730,
0.3736

81.0108, 0.3517,
0.3592

89.1712, 0.3327,
0.3451

98.0111, 0.3160,
0.3318

99.9984, 0.3127,
0.3290

Harmonies

Analogous

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



49.7202, 0.4865, 0.3553



49.7202, 0.4750, 0.4189



49.7202, 0.4188, 0.4746

Triad

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



49.7202, 0.4750, 0.4189



49.7202, 0.1946, 0.3499



49.7202, 0.2657, 0.2083

Complementary

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



49.7202, 0.4750, 0.4189



33.0224, 0.1991, 0.2000

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.



49.7202, 0.2016, 0.1973



49.7202, 0.4750, 0.4189



49.7202, 0.1653, 0.2636

Square

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



49.7202, 0.4750, 0.4189



49.7202, 0.2568, 0.4463



49.7202, 0.1683, 0.2136



49.7202, 0.3543, 0.2425

Rectangle

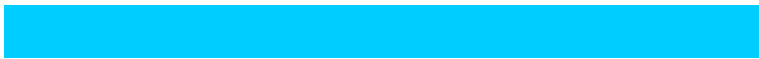
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.7202, 0.4750, 0.4189



49.7202, 0.3670, 0.4943



49.7202, 0.1683, 0.2136



49.7202, 0.2410, 0.2018

Sweetspot

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



49.7227, 0.4750, 0.4189



81.1262, 0.3514, 0.3590



28.3065, 0.4363, 0.2478



16.9147, 0.3569, 0.3629



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.



49.7227, 0.4750, 0.4189



43.2143, 0.5107, 0.4209



92.6516, 0.4065, 0.4890



19.5721, 0.3281, 0.3415



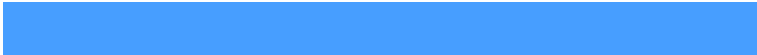
20.3805, 0.5331, 0.4149



2.2033, 0.5166, 0.4280

Inverse Universe

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



33.0224, 0.1991, 0.2000



25.7380, 0.1832, 0.1697



13.1914, 0.1749, 0.0997



18.7944, 0.2979, 0.3161



11.1583, 0.1746, 0.1484



1.3032, 0.1805, 0.1697

Previews

White Background



This preview shows how the Yxy color 49.7202, 0.4750, 0.4189 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 49.7202, 0.4750, 0.4189 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 49.7202, 0.4750, 0.4189

Background



This preview shows how black text looks on a background with the Yxy color 49.7202, 0.4750, 0.4189.



This preview shows how white text looks on a background with the Yxy color 49.7202, 0.4750, 0.4189.

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

49.7202, 0.4750, 0.4189

Protanopia

50.0576, 0.4149, 0.4553

Deuteranopia

49.7506, 0.4503, 0.4401



Tritanopia

49.6900, 0.3934, 0.3187

Trichromacy



Original Color

49.7202, 0.4750, 0.4189

Protanomaly

49.7245, 0.4368, 0.4418

Deuteranomaly

49.5790, 0.4601, 0.4318

Tritanomaly

49.5602, 0.4272, 0.3596

Monochromacy



Original Color

49.7202, 0.4750, 0.4189

Achromatopsia

47.3531, 0.3127, 0.3290

Achromatomaly

47.3491, 0.3717, 0.3737

CSS Examples

Text

The CSS property to change the color of the text to Yxy 49.7202, 0.4750, 0.4189 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, 168, 71)` looks like.

```
.text, #text, p{  
    color:rgb(255, 168, 71)  
}
```

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, 168, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 168, 71) }
```

Border

The CSS property to change the border of an element to Yxy 49.7202, 0.4750, 0.4189 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, 168, 71) }
```

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

```
.border{ border-color:rgb(255, 168, 71) }
```

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

Here you see how a box with a 4 pixel rgb(255, 168, 71) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 168, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 168, 71);  
box-shadow:4px 4px 4px 4px rgb(255, 168,  
71) }
```


Background

The CSS property to change the background color of an element to Yxy 49.7202, 0.4750, 0.4189 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 168, 71) }
```

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

```
.background{ background-color: rgb(255,  
168, 71) }
```

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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