

Converting Colors

$Y_{xy}(49.9720, 0.4681, 0.4118)$

Have a look what the booklet for
Yxy(49.9720, 0.4681, 0.4118)
contains.

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Color

Yxy(49.8745, 0.4681, 0.4113)

Conversions

Conversions Part 1

Format	Color
Hex	FFA852
RGB	255, 168, 82
RGB Percent	100%, 66%, 32%
CMY	0.0001, 0.3411, 0.6783
CMYK	0.00, 0.34, 0.68, 0.00
HSL	30°, 100%, 66%
HSV	30°, 68%, 100%
XYZ	56.7621, 49.8745, 14.6240
YIQ	184.2090, 79.4580, -8.3020

Conversions

Conversions Part 2

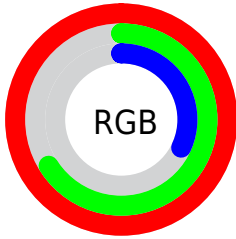
Format	Color
R_{YB}	255, 253, 82
Decimal	16754770
CIE _{Lab}	75.99, 24.54, 56.18
CIE _{LCh}	76, 61.310, 66.404
Yxy	49.8745, 0.4681, 0.4113
Android (android.graphics.Color)	4294944850 (0xFFFFA852)
YUV	184.2090, -50.3890, 62.0837
Hunter-Lab	70.6219, 19.8805, 37.1578

Details

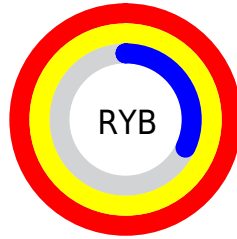
The Yxy color **49.8745, 0.4681, 0.4113** is a light color, and the websafe version is hex **FF9933**. The color can be described as light muted orange. A complement of this color would be **37.3912, 0.2064, 0.2161**, and the grayscale version is **48.3088, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.7846, 0.3966, 0.4175**, and **24.0488, 0.5033, 0.4215** is the 20% darker color. If you saturate the color by 10%, you get **45.0543, 0.4953, 0.4155**, and if you desaturate by 10%, it is **55.3108, 0.4401, 0.4029**.

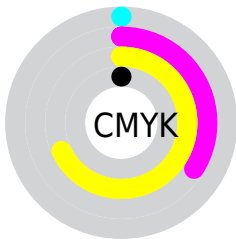
Distribution



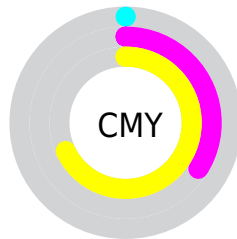
- Red (100%)
- Green (66%)
- Blue (32%)



- Red (100%)
- Yellow (99%)
- Blue (32%)



- Cyan (0%)
- Magenta (34%)
- Yellow (68%)
- Black (0%)



- Cyan (0%)
- Magenta (34%)
- Yellow (68%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 49.8745, 0.4681, 0.4113 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 49.8745, 0.4681, 0.4113 by changing the saturation by 10% instead.


 49.8745, 0.4681,
0.4113


 49.8745, 0.4681,
0.4113


386.1750, 0.3942,
0.3781


 35.3137, 0.4842,
0.4165


 89.9889, 0.4428,
0.4014


 23.9046, 0.5033,
0.4214


 116.3113, 0.4327,
0.3971


 15.2629, 0.5257,
0.4249


 147.3230, 0.4241,
0.3931

 9.0041, 0.5539,
0.4267

 183.4084, 0.4165,
0.3895

 4.7438, 0.5819,
0.4181

 224.9519, 0.4099,
0.3862

 2.0978, 0.6084,
0.3916

272.3379, 0.4040,

 0.6634, 0.6608,

0.3832

0.3392

325.9508, 0.3988,
0.3805

0.0000, 1.0000,
0.0000

0.0000, 0.0000,
0.0000

49.8745, 0.4681,
0.4113

49.8745, 0.4681,
0.4113

45.0543, 0.4953,
0.4155

55.3108, 0.4401,
0.4029

40.8123, 0.5199,
0.4143

61.3827, 0.4128,
0.3917

37.1143, 0.5403,
0.4077

68.1179, 0.3873,
0.3788

36.3743, 0.5445,
0.4059

75.5395, 0.3641,
0.3653

■ 83.6695, 0.3435,
0.3517

■ 92.5286, 0.3253,
0.3387

99.9967, 0.3127,
0.3290

Harmonies

Analogous

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



49.8745, 0.4742, 0.3509



49.8745, 0.4681, 0.4113



49.8745, 0.4183, 0.4637

Triad

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



49.8745, 0.4681, 0.4113



49.8745, 0.2049, 0.3556



49.8745, 0.2637, 0.2132

Complementary

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



49.8745, 0.4681, 0.4113



37.3912, 0.2064, 0.2161

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.



49.8745, 0.2047, 0.2046



49.8745, 0.4681, 0.4113



49.8745, 0.1742, 0.2731

Square

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



49.8745, 0.4681, 0.4113



49.8745, 0.2661, 0.4428



49.8745, 0.1748, 0.2228



49.8745, 0.3458, 0.2444

Rectangle

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



49.8745, 0.4681, 0.4113



49.8745, 0.3705, 0.4827



49.8745, 0.1748, 0.2228



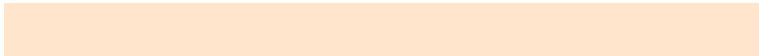
49.8745, 0.2409, 0.2076

Sweetspot

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



49.8770, 0.4681, 0.4113



81.8545, 0.3477, 0.3546



30.2517, 0.4174, 0.2445



17.0249, 0.3534, 0.3584



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.



49.8770, 0.4681, 0.4113



43.6538, 0.5035, 0.4157



91.5503, 0.4069, 0.4800



19.4789, 0.3282, 0.3408



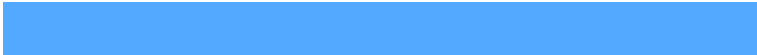
19.3074, 0.5419, 0.4079



2.0982, 0.5242, 0.4220

Inverse Universe

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



37.3912, 0.2064, 0.2161



30.4183, 0.1912, 0.1903



15.4982, 0.1814, 0.1135



18.8873, 0.2979, 0.3169



12.1697, 0.1773, 0.1583



1.4034, 0.1830, 0.1788

Previews

White Background



This preview shows how the Yxy color 49.8745, 0.4681, 0.4113 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 49.8745, 0.4681, 0.4113 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 49.8745, 0.4681, 0.4113

Background



This preview shows how black text looks on a background with the Yxy color 49.8745, 0.4681, 0.4113.



This preview shows how white text looks on a background with the Yxy color 49.8745, 0.4681, 0.4113.

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

49.8745, 0.4681, 0.4113

Protanopia

50.0809, 0.4074, 0.4459

Deuteranopia

50.1284, 0.4422, 0.4335



Tritanopia

49.7283, 0.3924, 0.3177

Trichromacy



Original Color

49.8745, 0.4681, 0.4113

Protanomaly

49.7272, 0.4291, 0.4332

Deuteranomaly

49.9399, 0.4518, 0.4253

Tritanomaly

49.6750, 0.4235, 0.3555

Monochromacy



Original Color

49.8745, 0.4681, 0.4113

Achromatopsia

47.9320, 0.3127, 0.3290

Achromatomaly

47.6490, 0.3683, 0.3674

CSS Examples

Text

The CSS property to change the color of the text to Yxy 49.8745, 0.4681, 0.4113 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, 82)` looks like.

```
.text, #text, p{  
    color:rgb(255, 168, 82)  
}
```

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, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 168, 82) }
```

Border

The CSS property to change the border of an element to Yxy 49.8745, 0.4681, 0.4113 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, 82) }
```

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

```
.border{ border-color:rgb(255, 168, 82) }
```

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, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 168, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 168, 82);  
box-shadow:4px 4px 4px 4px rgb(255, 168,  
82) }
```


Background

The CSS property to change the background color of an element to Yxy 49.8745, 0.4681, 0.4113 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, 82) }
```

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

```
.background{ background-color: rgb(255,  
168, 82) }
```

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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