

Converting Colors

$Y_{xy}(49.8830, 0.4748, 0.4398)$

Have a look what the booklet for
Yxy(49.8830, 0.4748, 0.4398)
contains.

Yxy(49.8830, 0.4748, 0.4398)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(49.8830, 0.4748, 0.4398)

Conversions

Conversions Part 1

Format	Color
Hex	F7AD31
RGB	247, 173, 49
RGB Percent	97%, 68%, 19%
CMY	0.0314, 0.3215, 0.8082
CMYK	0.00, 0.30, 0.80, 0.03
HSL	38°, 93%, 58%
HSV	38°, 80%, 97%
XYZ	53.8528, 49.8830, 9.6862
YIQ	180.9900, 83.9080, -22.8760

Conversions

Conversions Part 2

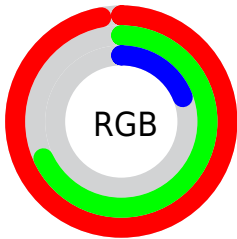
Format	Color
R _Y B	167, 247, 49
Decimal	16231729
CIE Lab	76.00, 17.20, 69.33
CIE LCh	76, 71.436, 76.069
Yxy	49.8830, 0.4748, 0.4398
Android (android.graphics.Color)	4294421809 (0xFFF7AD31)
YUV	180.9900, -65.0711, 57.8908
Hunter-Lab	70.6279, 12.5049, 41.3082

Details

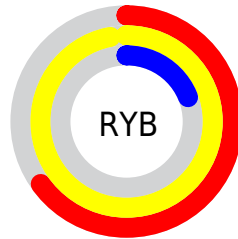
The Yxy color **49.8830, 0.4748, 0.4398** is a light color, and the websafe version is hex **CC9900**. The color can be described as light washed orange. A complement of this color would be **21.5073, 0.1828, 0.1565**, and the grayscale version is **46.5244, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.7667, 0.4113, 0.4472**, and **23.9890, 0.4967, 0.4438** is the 20% darker color. If you saturate the color by 10%, you get **46.3142, 0.4922, 0.4404**, and if you desaturate by 10%, it is **53.8152, 0.4545, 0.4340**.

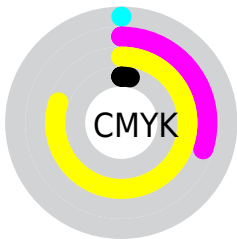
Distribution



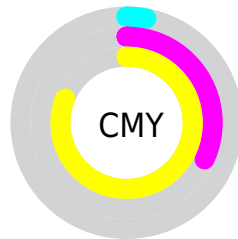
- Red (97%)
- Green (68%)
- Blue (19%)



- Red (65%)
- Yellow (97%)
- Blue (19%)



- Cyan (0%)
- Magenta (30%)
- Yellow (80%)
- Black (3%)




- Cyan (3%)
- Magenta (32%)
- Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 49.8830, 0.4748, 0.4398 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 49.8830, 0.4748, 0.4398 by changing the saturation by 10% instead.


 49.8830, 0.4748,
0.4398

 49.8830, 0.4748,
0.4398


386.2082, 0.4011,
0.3954

 35.3204, 0.4893,
0.4464


 90.0015, 0.4507,
0.4269


 23.9098, 0.5054,
0.4523


 116.3262, 0.4408,
0.4211


 15.2667, 0.5229,
0.4563


 147.3405, 0.4321,
0.4157

 9.0068, 0.5426,
0.4574

 183.4286, 0.4244,
0.4109

 4.7456, 0.5551,
0.4449

 224.9751, 0.4175,
0.4064

 2.0988, 0.5749,
0.4251

 272.3642, 0.4114,

 0.6639, 0.6168,

0.4024

0.3832

325.9805, 0.4060,
0.3987

0.0000, 0.0000,
0.0000

49.8830, 0.4748,
0.4398

49.8830, 0.4748,
0.4398

46.3142, 0.4922,
0.4404

53.8152, 0.4545,
0.4340


43.1292, 0.5062,
0.4363


58.1243, 0.4324,
0.4238

62.8311, 0.4097,
0.4103


67.9522, 0.3875,
0.3947

73.5027, 0.3663,
0.3781

 79.4965, 0.3468,
0.3613

 85.9469, 0.3290,
0.3449

 92.8663, 0.3130,
0.3293

 98.5130, 0.3078,
0.3290

Harmonies

Analogous

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



49.8830, 0.5032, 0.3719



49.8830, 0.4748, 0.4398



49.8830, 0.4048, 0.4965

Triad

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



49.8830, 0.4748, 0.4398



49.8830, 0.1741, 0.3240



49.8830, 0.2836, 0.2069

Complementary

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



49.8830, 0.4748, 0.4398



21.5073, 0.1828, 0.1565

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.



49.8830, 0.2074, 0.1886



49.8830, 0.4748, 0.4398



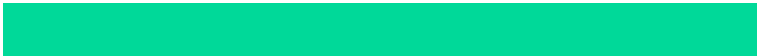
49.8830, 0.1529, 0.2400

Square

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



49.8830, 0.4748, 0.4398



49.8830, 0.2316, 0.4337



49.8830, 0.1643, 0.1975



49.8830, 0.3830, 0.2485

Rectangle

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



49.8830, 0.4748, 0.4398



49.8830, 0.3466, 0.5105



49.8830, 0.1643, 0.1975



49.8830, 0.2547, 0.1980

Sweetspot

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



49.8855, 0.4748, 0.4398



82.9389, 0.3541, 0.3678



23.4396, 0.4892, 0.2658



17.2624, 0.3611, 0.3738



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.



49.8855, 0.4748, 0.4398



47.6781, 0.5009, 0.4382



82.5675, 0.3970, 0.5081



18.2126, 0.3278, 0.3438



23.0925, 0.5043, 0.4378



2.2264, 0.4908, 0.4485

Inverse Universe

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



21.5073, 0.1828, 0.1565



16.7168, 0.1680, 0.1227



10.2836, 0.1717, 0.0859



16.9407, 0.2980, 0.3138



7.8731, 0.1663, 0.1186



0.8824, 0.1732, 0.1434

Previews

White Background



This preview shows how the Yxy color 49.8830, 0.4748, 0.4398 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 49.8830, 0.4748, 0.4398 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 49.8830, 0.4748, 0.4398

Background



This preview shows how black text looks on a background with the Yxy color 49.8830, 0.4748, 0.4398.



This preview shows how white text looks on a background with the Yxy color 49.8830, 0.4748, 0.4398.

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

49.8830, 0.4748, 0.4398

Protanopia

50.0724, 0.4284, 0.4715

Deuteranopia

49.8789, 0.4616, 0.4513



Tritanopia

49.6166, 0.3895, 0.3155

Trichromacy



Original Color

49.8830, 0.4748, 0.4398

Protanomaly

49.9622, 0.4447, 0.4600

Deuteranomaly

49.7893, 0.4665, 0.4467

Tritanomaly

49.0045, 0.4287, 0.3673

Monochromacy



Original Color

49.8830, 0.4748, 0.4398

Achromatopsia

46.2077, 0.3127, 0.3290

Achromatomaly

46.5134, 0.3758, 0.3856

CSS Examples

Text

The CSS property to change the color of the text to Yxy 49.8830, 0.4748, 0.4398 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, 173, 49)` looks like.

```
.text, #text, p{  
    color:rgb(247, 173, 49)  
}
```

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, 173, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 173, 49) }
```

Border

The CSS property to change the border of an element to Yxy 49.8830, 0.4748, 0.4398 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, 173, 49) }
```

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

```
.border{ border-color:rgb(247, 173, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 173, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 173, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 173, 49);  
box-shadow:4px 4px 4px 4px rgb(247, 173,  
49) }
```


Background

The CSS property to change the background color of an element to Yxy 49.8830, 0.4748, 0.4398 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 173, 49) }
```

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

```
.background{ background-color: rgb(247,  
173, 49) }
```

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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