

Converting Colors

$Y_{xy}(46.8533, 0.4926, 0.4234)$

Have a look what the booklet for
Yxy(46.8533, 0.4926, 0.4234)
contains.

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Color

Yxy(46.9888, 0.4922, 0.4237)

Conversions

Conversions Part 1

Format	Color
Hex	FFA133
RGB	255, 161, 51
RGB Percent	100%, 63%, 20%
CMY	0.0000, 0.3686, 0.7999
CMYK	0.00, 0.37, 0.80, 0.00
HSL	32°, 100%, 60%
HSV	32°, 80%, 100%
XYZ	54.5855, 46.9888, 9.3268
YIQ	176.5660, 91.3340, -14.2820

Conversions

Conversions Part 2

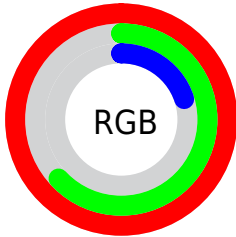
Format	Color
R _Y B	225, 255, 51
Decimal	16752947
CIE Lab	74.18, 26.89, 67.32
CIE LCh	74, 72.495, 68.228
Yxy	46.9888, 0.4922, 0.4237
Android (android.graphics.Color)	4294943027 (0xFFFFA133)
YUV	176.5660, -61.9040, 68.7866
Hunter-Lab	68.5484, 22.1811, 39.9168

Details

The Yxy color **46.9888, 0.4922, 0.4237** 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 **28.1813, 0.1891, 0.1804**, and the grayscale version is **44.0228, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.4123, 0.4180, 0.4364**, and **22.1437, 0.5213, 0.4243** is the 20% darker color. If you saturate the color by 10%, you get **42.9067, 0.5139, 0.4223**, and if you desaturate by 10%, it is **51.5814, 0.4675, 0.4197**.

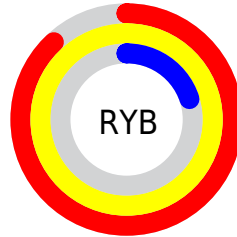
Distribution



Red (100%)

Green (63%)

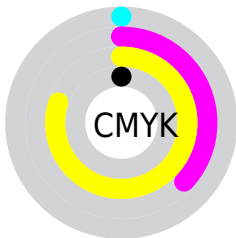
Blue (20%)



Red (88%)

Yellow (100%)

Blue (20%)

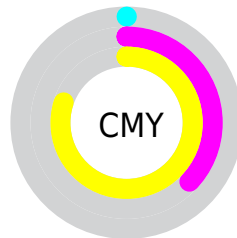


Cyan (0%)

Magenta (37%)

Yellow (80%)

Black (0%)



Cyan (0%)


Magenta (37%)


Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 46.9888, 0.4922, 0.4237 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 46.9888, 0.4922, 0.4237 by changing the saturation by 10% instead.


 46.9888, 0.4922,
0.4237


 46.9888, 0.4922,
0.4237


374.7698, 0.4087,
0.3882


 33.0268, 0.5092,
0.4279


 85.6969, 0.4644,
0.4142


 22.1470, 0.5284,
0.4306


 111.2118, 0.4532,
0.4096

 13.9649, 0.5503,
0.4307


 141.3464, 0.4433,
0.4053

 8.0963, 0.5746,
0.4254

 176.4852, 0.4346,
0.4013

 4.1566, 0.5944,
0.4056

 217.0126, 0.4270,
0.3976

 1.7616, 0.6255,
0.3745

 263.3129, 0.4202,

 0.4630, 0.7081,

0.3942

0.2919

315.7705, 0.4141,
0.3911

0.0000, 1.0000,
0.0000

0.0000, 0.0000,
0.0000

46.9888, 0.4922,
0.4237

46.9888, 0.4922,
0.4237

42.9067, 0.5139,
0.4223

51.5814, 0.4675,
0.4197

39.2937, 0.5319,
0.4159

56.7103, 0.4415,
0.4112

39.2908, 0.5319,
0.4159

62.4008, 0.4155,
0.3995

68.6751, 0.3908,
0.3859

75.5542, 0.3680,
0.3714

83.0572, 0.3473,
0.3567

91.2026, 0.3289,
0.3425

100.0000, 0.3127,
0.3290

Harmonies

Analogous

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



46.9888, 0.5071, 0.3540



46.9888, 0.4922, 0.4237



46.9888, 0.4282, 0.4887

Triad

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



46.9888, 0.4922, 0.4237



46.9888, 0.1816, 0.3525



46.9888, 0.2588, 0.1962

Complementary

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



46.9888, 0.4922, 0.4237



28.1813, 0.1891, 0.1804

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.



46.9888, 0.1895, 0.1843



46.9888, 0.4922, 0.4237



46.9888, 0.1507, 0.2551

Square

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



46.9888, 0.4922, 0.4237



46.9888, 0.2495, 0.4644



46.9888, 0.1542, 0.2012



46.9888, 0.3576, 0.2330

Rectangle

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



46.9888, 0.4922, 0.4237



46.9888, 0.3708, 0.5146



46.9888, 0.1542, 0.2012



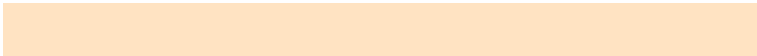
46.9888, 0.2319, 0.1893

Sweetspot

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



46.9895, 0.4922, 0.4237



79.9735, 0.3553, 0.3626



25.7114, 0.4621, 0.2494



16.5493, 0.3627, 0.3678



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.



46.9895, 0.4922, 0.4237



40.6849, 0.5250, 0.4188



91.7524, 0.4089, 0.4993



19.6096, 0.3281, 0.3418



20.8326, 0.5296, 0.4177



2.2471, 0.5135, 0.4304

Inverse Universe

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



28.1813, 0.1891, 0.1804



21.4543, 0.1753, 0.1488



10.4837, 0.1651, 0.0826



18.7572, 0.2979, 0.3158



10.7739, 0.1735, 0.1445



1.2647, 0.1795, 0.1660

Previews

White Background



This preview shows how the Yxy color 46.9888, 0.4922, 0.4237 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 46.9888, 0.4922, 0.4237 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 46.9888, 0.4922, 0.4237

Background



This preview shows how black text looks on a background with the Yxy color 46.9888, 0.4922, 0.4237.



This preview shows how white text looks on a background with the Yxy color 46.9888, 0.4922, 0.4237.

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

46.9888, 0.4922, 0.4237

Protanopia

47.1415, 0.4255, 0.4681

Deuteranopia

46.9074, 0.4618, 0.4507



Tritanopia

47.0515, 0.4030, 0.3187

Trichromacy



Original Color

46.9888, 0.4922, 0.4237

Protanomaly

46.6238, 0.4499, 0.4516

Deuteranomaly

46.9401, 0.4726, 0.4409

Tritanomaly

46.8040, 0.4428, 0.3644

Monochromacy



Original Color

46.9888, 0.4922, 0.4237

Achromatopsia

43.9657, 0.3127, 0.3290

Achromatomaly

43.7436, 0.3806, 0.3798

CSS Examples

Text

The CSS property to change the color of the text to Yxy 46.9888, 0.4922, 0.4237 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, 161, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 161, 51)  
}
```

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, 161, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 161, 51) }
```

Border

The CSS property to change the border of an element to Yxy 46.9888, 0.4922, 0.4237 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, 161, 51) }
```

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

```
.border{ border-color:rgb(255, 161, 51) }
```

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

Here you see how a box with a 4 pixel rgb(255, 161, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 161, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 161, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 161,  
51) }
```


Background

The CSS property to change the background color of an element to Yxy 46.9888, 0.4922, 0.4237 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 161, 51) }
```

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

```
.background{ background-color: rgb(255,  
161, 51) }
```

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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