

Converting Colors

$Y_{xy}(42.7275, 0.5096, 0.4164)$

Have a look what the booklet for
Yxy(42.7275, 0.5096, 0.4164)
contains.

Yxy(42.5999, 0.5101, 0.4160)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(42.5999, 0.5101, 0.4160)

Conversions

Conversions Part 1

Format	Color
Hex	FF9429
RGB	255, 148, 41
RGB Percent	100%, 58%, 16%
CMY	0.0000, 0.4196, 0.8392
CMYK	0.00, 0.42, 0.84, 0.00
HSL	30°, 100%, 58%
HSV	30°, 84%, 100%
XYZ	52.2361, 42.5999, 7.5676
YIQ	167.7950, 98.1190, -10.5930

Conversions

Conversions Part 2

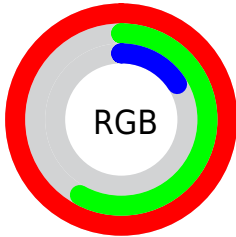
Format	Color
R _Y B	255, 255, 41
Decimal	16749609
CIE Lab	71.28, 33.34, 68.26
CIE LCh	71, 75.964, 63.968
Yxy	42.5999, 0.5101, 0.4160
Android (android.graphics.Color)	4294939689 (0xFFFF9429)
YUV	167.7950, -62.5099, 76.4788
Hunter-Lab	65.2686, 28.6379, 38.8136

Details

The Yxy color **42.5999, 0.5101, 0.4160** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **28.8756, 0.1882, 0.1839**, and the grayscale version is **39.3266, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.8349, 0.4317, 0.4322**, and **19.5722, 0.5411, 0.4086** is the 20% darker color. If you saturate the color by 10%, you get **38.6919, 0.5321, 0.4115**, and if you desaturate by 10%, it is **47.0603, 0.4844, 0.4149**.

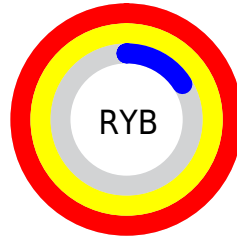
Distribution



Red (100%)

Green (58%)

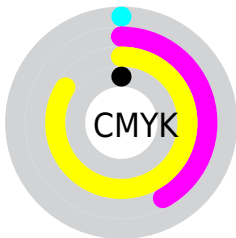
Blue (16%)



Red (100%)

Yellow (100%)

Blue (16%)

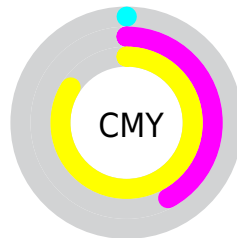


Cyan (0%)

Magenta (42%)

Yellow (84%)

Black (0%)



Cyan (0%)


Magenta (42%)

Yellow (84%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 42.5999, 0.5101, 0.4160 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 42.5999, 0.5101, 0.4160 by changing the saturation by 10% instead.


 42.5999, 0.5101,
0.4160


 42.5999, 0.5101,
0.4160


356.9638, 0.4170,
0.3860


 29.5713, 0.5291,
0.4181


 79.1067, 0.4791,
0.4090

 19.5134, 0.5504,
0.4178


 103.3538, 0.4665,
0.4052

 12.0419, 0.5775,
0.4155


 132.1091, 0.4555,
0.4015

 6.7722, 0.5996,
0.4004

 165.7571, 0.4459,
0.3980

 3.3200, 0.6259,
0.3741

 204.6822, 0.4374,
0.3947

 1.3010, 0.6677,
0.3323

 249.2687, 0.4298,

 0.1420, 0.8704,

0.3916

0.1296

299.9011, 0.4231,
0.3887

■ 0.0000, 0.0000,
0.0000

■ 42.5999, 0.5101,
0.4160

■ 42.5999, 0.5101,
0.4160

■ 38.6919, 0.5321,
0.4115

■ 47.0603, 0.4844,
0.4149

■ 36.5653, 0.5436,
0.4066


■ 52.1109, 0.4568,
0.4089


■ 57.7787, 0.4290,
0.3992

■ 64.0898, 0.4024,
0.3871

■ 71.0683, 0.3778,
0.3738

 78.7365, 0.3557,
0.3601

 87.1159, 0.3361,
0.3467

 96.2264, 0.3188,
0.3338

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.



42.5999, 0.5188, 0.3430



42.5999, 0.5101, 0.4160



42.5999, 0.4457, 0.4891

Triad

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



42.5999, 0.5101, 0.4160



42.5999, 0.1799, 0.3716



42.5999, 0.2417, 0.1846

Complementary

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



42.5999, 0.5101, 0.4160



28.8756, 0.1882, 0.1839

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.



42.5999, 0.1741, 0.1757



42.5999, 0.5101, 0.4160



42.5999, 0.1427, 0.2602

Square

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



42.5999, 0.5101, 0.4160



42.5999, 0.2562, 0.4914



42.5999, 0.1421, 0.1975



42.5999, 0.3443, 0.2197

Rectangle

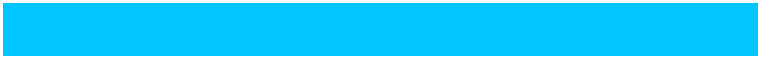
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.5999, 0.5101, 0.4160



42.5999, 0.3859, 0.5248



42.5999, 0.1421, 0.1975



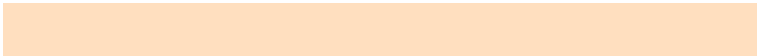
42.5999, 0.2150, 0.1785

Sweetspot

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



42.5982, 0.5101, 0.4160



77.8733, 0.3580, 0.3616



25.0994, 0.4556, 0.2399



16.0800, 0.3655, 0.3664



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.



42.5982, 0.5101, 0.4160



36.5653, 0.5436, 0.4066



90.6856, 0.4178, 0.4968



19.4876, 0.3282, 0.3409



19.4047, 0.5411, 0.4086



2.1078, 0.5235, 0.4226

Inverse Universe

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



28.8756, 0.1882, 0.1839



22.5311, 0.1763, 0.1545



9.5360, 0.1593, 0.0764



18.8786, 0.2979, 0.3168



12.0716, 0.1771, 0.1574



1.3938, 0.1828, 0.1780

Previews

White Background



This preview shows how the Yxy color 42.5999, 0.5101, 0.4160 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 42.5999, 0.5101, 0.4160 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 42.5999, 0.5101, 0.4160

Background



This preview shows how black text looks on a background with the Yxy color 42.5999, 0.5101, 0.4160.



This preview shows how white text looks on a background with the Yxy color 42.5999, 0.5101, 0.4160.

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

42.5999, 0.5101, 0.4160

Protanopia

42.6091, 0.4281, 0.4723

Deuteranopia

42.7489, 0.4662, 0.4558



Tritanopia

42.5118, 0.4235, 0.3199

Trichromacy



Original Color

42.5999, 0.5101, 0.4160

Protanomaly

41.8514, 0.4589, 0.4514

Deuteranomaly

42.2413, 0.4831, 0.4407

Tritanomaly

42.3323, 0.4640, 0.3636

Monochromacy



Original Color

42.5999, 0.5101, 0.4160

Achromatopsia

39.1572, 0.3127, 0.3290

Achromatomaly

39.1742, 0.3887, 0.3799

CSS Examples

Text

The CSS property to change the color of the text to Yxy 42.5999, 0.5101, 0.4160 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, 148, 41)` looks like.

```
.text, #text, p{  
    color:rgb(255, 148, 41)  
}
```

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, 148, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 148, 41) }
```

Border

The CSS property to change the border of an element to Yxy 42.5999, 0.5101, 0.4160 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, 148, 41) }
```

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

```
.border{ border-color:rgb(255, 148, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 148, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 148, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 148, 41);  
box-shadow:4px 4px 4px 4px rgb(255, 148,  
41) }
```


Background

The CSS property to change the background color of an element to Yxy 42.5999, 0.5101, 0.4160 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 148, 41) }
```

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

```
.background{ background-color: rgb(255,  
148, 41) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor