

Converting Colors

$Y_{xy}(50.4382, 0.4758, 0.4238)$

Have a look what the booklet for
Yxy(50.4382, 0.4758, 0.4238)
contains.

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Color

Yxy(50.4028, 0.4760, 0.4239)

Conversions

Conversions Part 1

Format	Color
Hex	FFAA42
RGB	255, 170, 66
RGB Percent	100%, 67%, 26%
CMY	0.0000, 0.3333, 0.7411
CMYK	0.00, 0.33, 0.74, 0.00
HSL	33°, 100%, 63%
HSV	33°, 74%, 100%
XYZ	56.5976, 50.4028, 11.9021
YIQ	183.5590, 84.0440, -14.3240

Conversions

Conversions Part 2

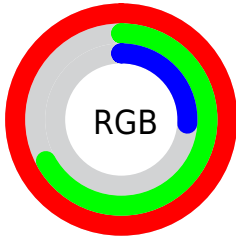
Format	Color
RYB	220, 255, 66
Decimal	16755266
CIELab	76.32, 22.74, 63.54
CIElCh	76, 67.484, 70.308
Yxy	50.4028, 0.4760, 0.4239
Android (android.graphics.Color)	4294945346 (0xFFFFAA42)
YUV	183.5590, -57.9566, 62.6538
Hunter-Lab	70.9949, 18.0602, 39.7566

Details

The Yxy color **50.4028, 0.4760, 0.4239** 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 **30.5136, 0.1952, 0.1899**, and the grayscale version is **47.9702, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.4665, 0.4048, 0.4326**, and **24.2943, 0.5088, 0.4342** is the 20% darker color. If you saturate the color by 10%, you get **46.0545, 0.4991, 0.4260**, and if you desaturate by 10%, it is **55.2652, 0.4509, 0.4169**.

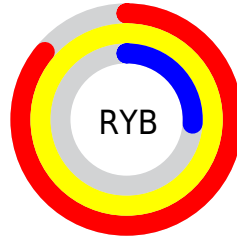
Distribution



Red (100%)

Green (67%)

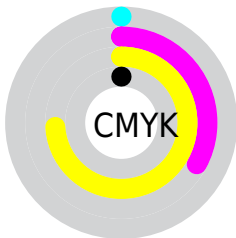
Blue (26%)



Red (86%)

Yellow (100%)

Blue (26%)

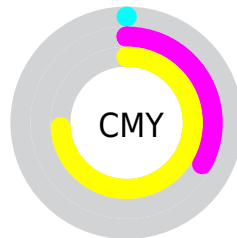


Cyan (0%)

Magenta (33%)

Yellow (74%)

Black (0%)



Cyan (0%)


Magenta (33%)


Yellow (74%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 50.4028, 0.4760, 0.4239 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 50.4028, 0.4760, 0.4239 by changing the saturation by 10% instead.


 50.4028, 0.4760,
0.4239

 50.4028, 0.4760,
0.4239


388.2391, 0.4000,
0.3863


 35.7336, 0.4918,
0.4294


 90.7714, 0.4505,
0.4130


 24.2285, 0.5099,
0.4343


 117.2395, 0.4403,
0.4081

 15.5032, 0.5303,
0.4372


 148.4094, 0.4314,
0.4036

 9.1733, 0.5591,
0.4409

 184.6655, 0.4235,
0.3995

 4.8544, 0.5749,
0.4251

 226.3921, 0.4166,
0.3957

 2.1621, 0.5994,
0.4006

273.9736, 0.4104,

 0.6992, 0.6466,

0.3923

0.3534

327.7945, 0.4049,
0.3892

■ 0.0000, 1.0000,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 50.4028, 0.4760,
0.4239

■ 50.4028, 0.4760,
0.4239

■ 46.0545, 0.4991,
0.4260

■ 55.2652, 0.4509,
0.4169

■ 42.1839, 0.5186,
0.4226

■ 60.6591, 0.4252,
0.4061

■ 40.1087, 0.5286,
0.4185

■ 66.6094, 0.4002,
0.3929

■ 73.1369, 0.3768,
0.3784

80.2608, 0.3554,
0.3634

87.9992, 0.3362,
0.3487

96.3692, 0.3191,
0.3346

99.9993, 0.3127,
0.3290

Harmonies

Analogous

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



50.4028, 0.4915, 0.3590



50.4028, 0.4760, 0.4239



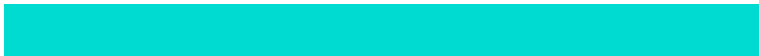
50.4028, 0.4162, 0.4803

Triad

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



50.4028, 0.4760, 0.4239



50.4028, 0.1892, 0.3442



50.4028, 0.2694, 0.2074

Complementary

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



50.4028, 0.4760, 0.4239



30.5136, 0.1952, 0.1899

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.



50.4028, 0.2023, 0.1946



50.4028, 0.4760, 0.4239



50.4028, 0.1617, 0.2577

Square

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



50.4028, 0.4760, 0.4239



50.4028, 0.2507, 0.4445



50.4028, 0.1667, 0.2092



50.4028, 0.3609, 0.2434

Rectangle

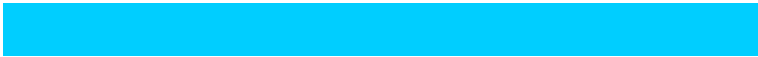
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



50.4028, 0.4760, 0.4239



50.4028, 0.3626, 0.4990



50.4028, 0.1667, 0.2092



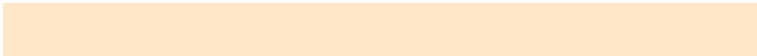
50.4028, 0.2436, 0.2003

Sweetspot

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



50.4054, 0.4760, 0.4239



81.8449, 0.3511, 0.3603



27.3940, 0.4509, 0.2532



17.0843, 0.3566, 0.3643



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.



50.4054, 0.4760, 0.4239



44.1054, 0.5091, 0.4250



91.4222, 0.4034, 0.4945



19.6442, 0.3280, 0.3421



21.2610, 0.5263, 0.4203



2.2884, 0.5108, 0.4327

Inverse Universe

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



30.5136, 0.1952, 0.1899



23.4634, 0.1796, 0.1588



12.6330, 0.1746, 0.0961



18.7229, 0.2979, 0.3156



10.4297, 0.1725, 0.1410



1.2300, 0.1785, 0.1627

Previews

White Background



This preview shows how the Yxy color 50.4028, 0.4760, 0.4239 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 50.4028, 0.4760, 0.4239 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 50.4028, 0.4760, 0.4239

Background



This preview shows how black text looks on a background with the Yxy color 50.4028, 0.4760, 0.4239.



This preview shows how white text looks on a background with the Yxy color 50.4028, 0.4760, 0.4239.

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

50.4028, 0.4760, 0.4239

Protanopia

50.5518, 0.4183, 0.4606

Deuteranopia

50.4319, 0.4537, 0.4433



Tritanopia

50.4715, 0.3907, 0.3187

Trichromacy



Original Color

50.4028, 0.4760, 0.4239

Protanomaly

50.0543, 0.4393, 0.4472

Deuteranomaly

50.4755, 0.4618, 0.4364

Tritanomaly

50.2537, 0.4271, 0.3627

Monochromacy



Original Color

50.4028, 0.4760, 0.4239

Achromatopsia

47.9320, 0.3127, 0.3290

Achromatomaly

47.8649, 0.3732, 0.3760

CSS Examples

Text

The CSS property to change the color of the text to Yxy 50.4028, 0.4760, 0.4239 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, 170, 66)` looks like.

```
.text, #text, p{  
    color:rgb(255, 170, 66)  
}
```

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, 170, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 170, 66) }
```

Border

The CSS property to change the border of an element to Yxy 50.4028, 0.4760, 0.4239 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, 170, 66) }
```

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

```
.border{ border-color:rgb(255, 170, 66) }
```

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

Here you see how a box with a 4 pixel rgb(255, 170, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 170, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 170, 66);  
box-shadow:4px 4px 4px 4px rgb(255, 170,  
66) }
```


Background

The CSS property to change the background color of an element to Yxy 50.4028, 0.4760, 0.4239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 170, 66) }
```

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

```
.background{ background-color: rgb(255,  
170, 66) }
```

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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