

Converting Colors

$Y_{xy}(38.8013, 0.5207, 0.4006)$

Have a look what the booklet for
Yxy(38.8013, 0.5207, 0.4006)
contains.

Yxy(38.8013, 0.5207, 0.4006)	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(38.8013, 0.5207, 0.4006)

Conversions

Conversions Part 1

Format	Color
Hex	FF8730
RGB	255, 135, 48
RGB Percent	100%, 53%, 19%
CMY	0.0000, 0.4705, 0.8119
CMYK	0.00, 0.47, 0.81, 0.00
HSL	25°, 100%, 59%
HSV	25°, 81%, 100%
XYZ	50.4339, 38.8013, 7.6227
YIQ	160.9620, 99.4470, -1.6170

Conversions

Conversions Part 2

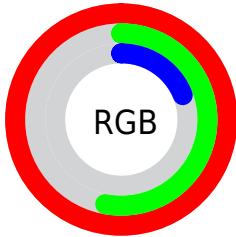
Format	Color
R _Y B	255, 198, 48
Decimal	16746288
CIE Lab	68.61, 40.11, 63.45
CIE LCh	69, 75.059, 57.702
Yxy	38.8013, 0.5207, 0.4006
Android (android.graphics.Color)	4294936368 (0xFFFF8730)
YUV	160.9620, -55.6903, 82.4713
Hunter-Lab	62.2907, 35.5146, 36.3480

Details

The Yxy color **38.8013, 0.5207, 0.4006** 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 **35.8266, 0.1970, 0.2122**, and the grayscale version is **35.8513, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.0265, 0.4383, 0.4172**, and **17.2629, 0.5602, 0.3934** is the 20% darker color. If you saturate the color by 10%, you get **34.8083, 0.5475, 0.3960**, and if you desaturate by 10%, it is **43.4916, 0.4902, 0.3998**.

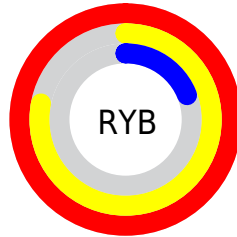
Distribution



Red (100%)

Green (53%)

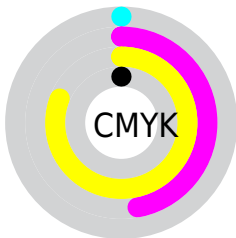
Blue (19%)



Red (100%)

Yellow (78%)

Blue (19%)

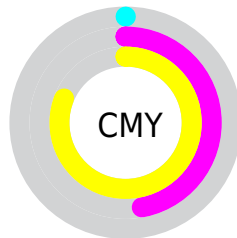


Cyan (0%)

Magenta (47%)

Yellow (81%)

Black (0%)



Cyan (0%)


Magenta (47%)


Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 38.8013, 0.5207, 0.4006 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 38.8013, 0.5207, 0.4006 by changing the saturation by 10% instead.

 38.8013, 0.5207,
0.4006


 38.8013, 0.5207,
0.4006


341.0450, 0.4198,
0.3779

 26.6052, 0.5422,
0.4010


 73.3347, 0.4863,
0.3962


 17.2769, 0.5670,
0.3984


 96.4407, 0.4726,
0.3934

 10.4321, 0.5988,
0.3930


 123.9522, 0.4607,
0.3905

 5.6864, 0.6266,
0.3734

 156.2535, 0.4503,
0.3877

 2.6553, 0.6601,
0.3399

 193.7291, 0.4412,
0.3850

 0.9546, 0.7133,
0.2867

 236.7632, 0.4332,

 0.0000, 1.0000,

0.3825

0.0000

285.7404, 0.4261,
0.3801

■ 0.0000, 0.0000,
0.0000

■ 38.8013, 0.5207,
0.4006

■ 38.8013, 0.5207,
0.4006

■ 34.8083, 0.5475,
0.3960

■ 43.4916, 0.4902,
0.3998

■ 31.8202, 0.5671,
0.3879

■ 48.9130, 0.4585,
0.3944

■ 55.1035, 0.4277,
0.3858

■ 62.0963, 0.3992,
0.3752

■ 69.9219, 0.3735,
0.3638

78.6093, 0.3510,
0.3522

88.1858, 0.3314,
0.3409

98.6774, 0.3146,
0.3302

99.9979, 0.3127,
0.3290

Harmonies

Analogous

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



38.8013, 0.5149, 0.3279



38.8013, 0.5207, 0.4006



38.8013, 0.4641, 0.4764

Triad

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



38.8013, 0.5207, 0.4006



38.8013, 0.1906, 0.4001



38.8013, 0.2229, 0.1783

Complementary

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



38.8013, 0.5207, 0.4006



35.8266, 0.1970, 0.2122

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.



38.8013, 0.1625, 0.1752



38.8013, 0.5207, 0.4006



38.8013, 0.1447, 0.2784

Square

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



38.8013, 0.5207, 0.4006



38.8013, 0.2746, 0.5126



38.8013, 0.1371, 0.2046



38.8013, 0.3208, 0.2086

Rectangle

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



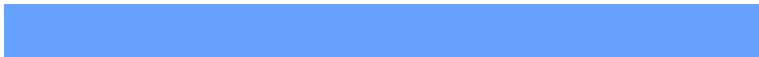
38.8013, 0.5207, 0.4006



38.8013, 0.4063, 0.5189



38.8013, 0.1371, 0.2046



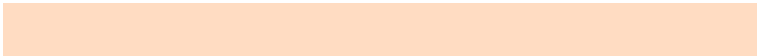
38.8013, 0.1985, 0.1741

Sweetspot

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



38.8034, 0.5207, 0.4006



76.0887, 0.3570, 0.3554



26.2227, 0.4279, 0.2270



15.6208, 0.3650, 0.3595



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.



38.8034, 0.5207, 0.4006



32.7907, 0.5607, 0.3908



82.4667, 0.4260, 0.4861



19.2423, 0.3284, 0.3390



16.9081, 0.5642, 0.3902



1.8567, 0.5439, 0.4063

Inverse Universe

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



35.8266, 0.1970, 0.2122



29.3986, 0.1856, 0.1868



11.6515, 0.1647, 0.0906



19.1264, 0.2979, 0.3188



15.1040, 0.1847, 0.1847



1.6869, 0.1897, 0.2027

Previews

White Background



This preview shows how the Yxy color 38.8013, 0.5207, 0.4006 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 38.8013, 0.5207, 0.4006 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 38.8013, 0.5207, 0.4006

Background



This preview shows how black text looks on a background with the Yxy color 38.8013, 0.5207, 0.4006.



This preview shows how white text looks on a background with the Yxy color 38.8013, 0.5207, 0.4006.

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

38.8013, 0.5207, 0.4006

Protanopia

38.9920, 0.4224, 0.4642

Deuteranopia

38.7851, 0.4626, 0.4529



Tritanopia

38.7667, 0.4441, 0.3212

Trichromacy



Original Color

38.8013, 0.5207, 0.4006

Protanomaly

38.0403, 0.4591, 0.4398

Deuteranomaly

38.3108, 0.4852, 0.4322

Tritanomaly

38.5125, 0.4785, 0.3550

Monochromacy



Original Color

38.8013, 0.5207, 0.4006

Achromatopsia

35.6400, 0.3127, 0.3290

Achromatomaly

35.4146, 0.3900, 0.3721

CSS Examples

Text

The CSS property to change the color of the text to Yxy 38.8013, 0.5207, 0.4006 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, 135, 48)` looks like.

```
.text, #text, p{  
    color:rgb(255, 135, 48)  
}
```

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, 135, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 135, 48) }
```

Border

The CSS property to change the border of an element to Yxy 38.8013, 0.5207, 0.4006 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, 135, 48) }
```

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

```
.border{ border-color:rgb(255, 135, 48) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 135, 48)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 135, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 135, 48);  
box-shadow:4px 4px 4px 4px rgb(255, 135,  
48) }
```


Background

The CSS property to change the background color of an element to Yxy 38.8013, 0.5207, 0.4006 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 135, 48) }
```

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

```
.background{ background-color: rgb(255,  
135, 48) }
```

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