

# Converting Colors

$Y_{xy}(40.8975, 0.5043, 0.3981)$

Have a look what the booklet for  
Yxy(40.8975, 0.5043, 0.3981)  
contains.

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# Color

**Yxy(40.9762, 0.5041, 0.3984)**

# Conversions

Conversions Part 1	
Format	Color
Hex	FF8E40
RGB	255, 142, 64
RGB Percent	100%, 56%, 25%
CMY	0.0000, 0.4432, 0.7490
CMYK	0.00, 0.44, 0.75, 0.00
HSL	24°, 100%, 63%
HSV	24°, 75%, 100%
XYZ	51.8476, 40.9762, 10.0281
YIQ	166.8950, 92.3860, -0.3020

# Conversions

## Conversions Part 2

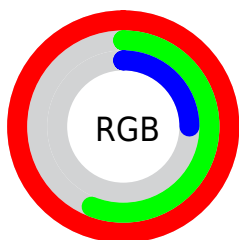
Format	Color
<a href="#">RYB</a>	<a href="#">255, 196, 64</a>
Decimal	<a href="#">16748096</a>
CIELab	<a href="#">70.16, 37.16, 58.23</a>
CIELCh	<a href="#">70, 69.079, 57.454</a>
Yxy	<a href="#">40.9762, 0.5041, 0.3984</a>
Android (android.graphics.Color)	<a href="#">4294938176</a> (0xFFFF8E40)
YUV	<a href="#">166.8950, -50.7272, 77.2681</a>
Hunter-Lab	<a href="#">64.0127, 32.5556, 35.5206</a>

# Details

The Yxy color **40.9762, 0.5041, 0.3984** 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 **39.7637, 0.2039, 0.2259**, and the grayscale version is **38.8035, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.4535, 0.4234, 0.4109**, and **18.5298, 0.5487, 0.3999** is the 20% darker color. If you saturate the color by 10%, you get **36.5555, 0.5341, 0.3970**, and if you desaturate by 10%, it is **46.1293, 0.4719, 0.3949**.

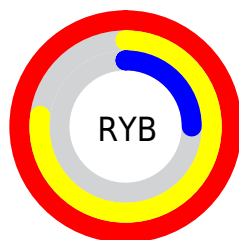
# Distribution



Red (100%)

Green (56%)

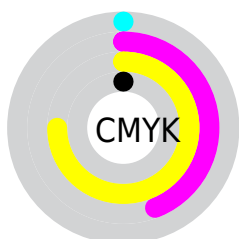
Blue (25%)



Red (100%)

Yellow (77%)

Blue (25%)

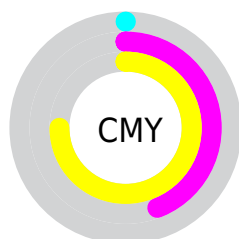


Cyan (0%)

Magenta (44%)

Yellow (75%)

Black (0%)



Cyan (0%)


Magenta (44%)

Yellow (75%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 40.9762, 0.5041, 0.3984 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 40.9762, 0.5041, 0.3984 by changing the saturation by 10% instead.


 40.9762, 0.5041,  
0.3984

 40.9762, 0.5041,  
0.3984

350.2211, 0.4106,  
0.3743

 28.3005, 0.5247,  
0.4002


 76.6478, 0.4718,  
0.3927


 18.5523, 0.5490,  
0.4000


 100.4124, 0.4590,  
0.3896


 11.3472, 0.5774,  
0.3958


 128.6421, 0.4481,  
0.3866

 6.3009, 0.6137,  
0.3863

 161.7214, 0.4385,  
0.3838

 3.0289, 0.6435,  
0.3565

 200.0345, 0.4302,  
0.3811

 1.1468, 0.6908,  
0.3092


243.9659, 0.4229,


 0.0176, 0.9813,


0.3787


0.0187


293.9000, 0.4164,  
0.3764


 0.0000, 0.0000,  
0.0000

 40.9762, 0.5041,  
0.3984


 40.9762, 0.5041,  
0.3984


 36.5555, 0.5341,  
0.3970


 46.1293, 0.4719,  
0.3949

 32.8352, 0.5595,  
0.3902

 52.0657, 0.4401,  
0.3876


 31.1829, 0.5706,  
0.3851

 58.8167, 0.4101,  
0.3779

 66.4153, 0.3830,  
0.3670

 74.8923, 0.3591,  
0.3557

 84.2767, 0.3384,  
0.3445

 94.5961, 0.3205,  
0.3339

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.



40.9762, 0.4959, 0.3299



40.9762, 0.5041, 0.3984



40.9762, 0.4550, 0.4670

# Triad

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



40.9762, 0.5041, 0.3984



40.9762, 0.2023, 0.3944



40.9762, 0.2301, 0.1892

# Complementary

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



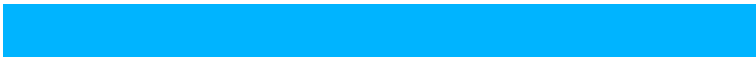
40.9762, 0.5041, 0.3984



39.7637, 0.2039, 0.2259

# 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.



40.9762, 0.1734, 0.1870



40.9762, 0.5041, 0.3984



40.9762, 0.1579, 0.2855

# Square

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



40.9762, 0.5041, 0.3984



40.9762, 0.2809, 0.4929



40.9762, 0.1496, 0.2160



40.9762, 0.3199, 0.2174

# Rectangle

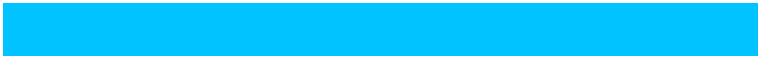
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.9762, 0.5041, 0.3984



40.9762, 0.4025, 0.5031



40.9762, 0.1496, 0.2160



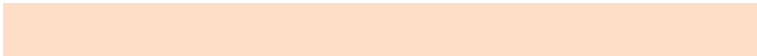
40.9762, 0.2074, 0.1854

# Sweetspot

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



40.9722, 0.5041, 0.3984



77.5175, 0.3528, 0.3524



28.1665, 0.4110, 0.2262



16.0657, 0.3587, 0.3555



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.



40.9722, 0.5041, 0.3984



34.5736, 0.5478, 0.3942



81.5641, 0.4231, 0.4784



19.2048, 0.3284, 0.3388



16.5694, 0.5677, 0.3874



1.8216, 0.5471, 0.4038



# Inverse Universe

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



39.7637, 0.2039, 0.2259



33.0280, 0.1911, 0.2019



14.5134, 0.1737, 0.1083



19.1648, 0.2979, 0.3191



15.6202, 0.1859, 0.1891



1.7359, 0.1907, 0.2066



# Previews

## White Background



This preview shows how the Yxy color 40.9762, 0.5041, 0.3984 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 40.9762, 0.5041, 0.3984 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 40.9762, 0.5041, 0.3984**

## Background



This preview shows how black text looks on a background with the Yxy color 40.9762, 0.5041, 0.3984.



This preview shows how white text looks on a background with the Yxy color 40.9762, 0.5041, 0.3984.

# 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

40.9762, 0.5041, 0.3984

### Protanopia

41.0625, 0.4125, 0.4524

### Deuteranopia

40.9469, 0.4527, 0.4425



## Tritanopia

40.9127, 0.4314, 0.3200

# Trichromacy



## Original Color

40.9762, 0.5041, 0.3984

## Protanomaly

40.2281, 0.4463, 0.4317

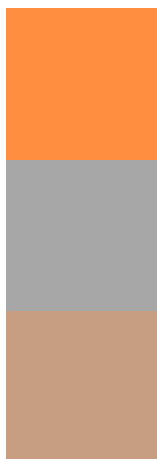
## Deuteranomaly

40.5919, 0.4730, 0.4251

## Tritanomaly

40.6979, 0.4621, 0.3516

# Monochromacy



## Original Color

40.9762, 0.5041, 0.3984

## Achromatopsia

38.6429, 0.3127, 0.3290

## Achromatomaly

38.2075, 0.3813, 0.3659

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.9762, 0.5041, 0.3984 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, 142, 64)` looks like.

```
.text, #text, p{  
    color:rgb(255, 142, 64)  
}
```

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, 142, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 142, 64) }
```

## Border

The CSS property to change the border of an element to Yxy 40.9762, 0.5041, 0.3984 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, 142, 64) }
```

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

```
.border{ border-color:rgb(255, 142, 64) }
```

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

Here you see how a box with a 4 pixel rgb(255, 142, 64) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 142, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 142, 64);  
box-shadow:4px 4px 4px 4px rgb(255, 142,  
64) }
```

# Background

The CSS property to change the background color of an element to Yxy 40.9762, 0.5041, 0.3984 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 142, 64) }
```

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

```
.background{ background-color: rgb(255,  
142, 64) }
```

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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