

# Converting Colors

$Y_{xy}(40.2267, 0.5051, 0.3944)$

Have a look what the booklet for  
Yxy(40.2267, 0.5051, 0.3944)  
contains.

<b>Yxy(40.1186, 0.5057, 0.3942)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(40.1186, 0.5057, 0.3942)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8B42
RGB	255, 139, 66
RGB Percent	100%, 55%, 26%
CMY	0.0000, 0.4550, 0.7411
CMYK	0.00, 0.45, 0.74, 0.00
HSL	23°, 100%, 63%
HSV	23°, 74%, 100%
XYZ	51.4662, 40.1186, 10.1874
YIQ	165.3620, 92.5690, 1.8890

# Conversions

## Conversions Part 2

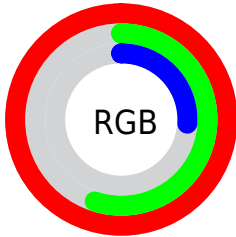
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 185, 66
Decimal	16747330
CIE Lab	69.55, 38.77, 56.71
CIE LCh	70, 68.696, 55.644
Yxy	40.1186, 0.5057, 0.3942
Android (android.graphics.Color)	4294937410 (0xFFFF8B42)
YUV	165.3620, -48.9855, 78.6125
Hunter-Lab	63.3392, 34.1962, 34.8013

# Details

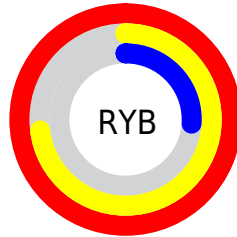
The Yxy color **40.1186, 0.5057, 0.3942** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **41.8477, 0.2062, 0.2330**, and the grayscale version is **38.0117, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.1516, 0.4238, 0.4062**, and **18.0448, 0.5516, 0.3950** is the 20% darker color. If you saturate the color by 10%, you get **35.6645, 0.5370, 0.3928**, and if you desaturate by 10%, it is **45.3466, 0.4724, 0.3908**.

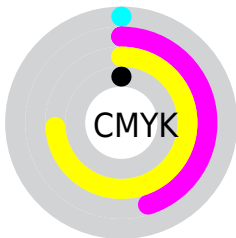
# Distribution



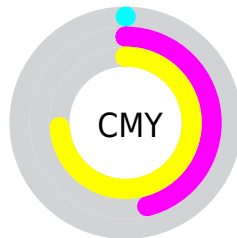
- Red (100%)
- Green (55%)
- Blue (26%)



- Red (100%)
- Yellow (73%)
- Blue (26%)



- Cyan (0%)
- Magenta (45%)
- Yellow (74%)
- Black (0%)




- Cyan (0%)
- Magenta (46%)
- Yellow (74%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.1186, 0.5057, 0.3942 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 40.1186, 0.5057, 0.3942 by changing the saturation by 10% instead.




 40.1186, 0.5057,  
0.3942


 40.1186, 0.5057,  
0.3942


346.6232, 0.4107,  
0.3720


 27.6310, 0.5269,  
0.3956


 75.3441, 0.4727,  
0.3891


 18.0477, 0.5520,  
0.3949


 98.8508, 0.4597,  
0.3863


 10.9842, 0.5815,  
0.3900


 126.7993, 0.4486,  
0.3835

 6.0562, 0.6200,  
0.3800

 159.5741, 0.4390,  
0.3809

 2.8793, 0.6515,  
0.3485

 197.5594, 0.4305,  
0.3784

 1.0691, 0.7014,  
0.2986

241.1398, 0.4231,

 0.0000, 1.0000,

0.3761

0.0000

290.6996, 0.4166,  
0.3739

■ 0.0000, 0.0000,  
0.0000

■ 40.1186, 0.5057,  
0.3942

■ 40.1186, 0.5057,  
0.3942

■ 35.6645, 0.5370,  
0.3928

■ 45.3466, 0.4724,  
0.3908

■ 31.9512, 0.5637,  
0.3860

■ 51.4038, 0.4396,  
0.3838

■ 30.0812, 0.5769,  
0.3801

■ 58.3238, 0.4091,  
0.3745

■ 66.1417, 0.3817,  
0.3641

■ 74.8906, 0.3577,  
0.3534

84.6018, 0.3370,  
0.3429

95.3049, 0.3192,  
0.3329

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.



40.1186, 0.4935, 0.3259



40.1186, 0.5057, 0.3942



40.1186, 0.4593, 0.4632

# Triad

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



40.1186, 0.5057, 0.3942



40.1186, 0.2060, 0.4015



40.1186, 0.2256, 0.1881

# Complementary

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



40.1186, 0.5057, 0.3942



41.8477, 0.2062, 0.2330

# 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.



40.1186, 0.1709, 0.1876



40.1186, 0.5057, 0.3942



40.1186, 0.1593, 0.2910

# Square

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



40.1186, 0.5057, 0.3942



40.1186, 0.2862, 0.4970



40.1186, 0.1490, 0.2188



40.1186, 0.3138, 0.2149



# Rectangle

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



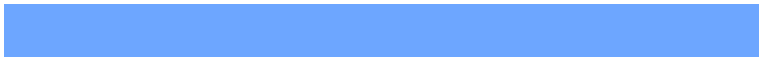
40.1186, 0.5057, 0.3942



40.1186, 0.4078, 0.5008



40.1186, 0.1490, 0.2188



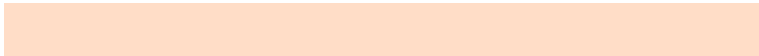
40.1186, 0.2035, 0.1848

# Sweetspot

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



40.1140, 0.5057, 0.3942



76.8600, 0.3531, 0.3512



28.5587, 0.4051, 0.2238



15.9115, 0.3591, 0.3541



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.



40.1140, 0.5057, 0.3942



33.7605, 0.5508, 0.3902



79.9041, 0.4245, 0.4754



19.1370, 0.3285, 0.3382



15.9854, 0.5739, 0.3825



1.7605, 0.5528, 0.3993



# Inverse Universe

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



41.8477, 0.2062, 0.2330



35.2419, 0.1937, 0.2106



15.3687, 0.1756, 0.1134



19.2345, 0.2979, 0.3196



16.5903, 0.1881, 0.1970



1.8273, 0.1927, 0.2136



# Previews

## White Background



This preview shows how the Yxy color 40.1186, 0.5057, 0.3942 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 40.1186, 0.5057, 0.3942 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 40.1186, 0.5057, 0.3942**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.1186, 0.5057, 0.3942.



This preview shows how white text looks on a background with the Yxy color 40.1186, 0.5057, 0.3942.

# 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

40.1186, 0.5057, 0.3942

### Protanopia

40.4526, 0.4100, 0.4505

### Deuteranopia

40.3130, 0.4506, 0.4412



## Tritanopia

39.9881, 0.4363, 0.3201

# Trichromacy



**Original Color**

40.1186, 0.5057, 0.3942

**Protanomaly**

39.4103, 0.4458, 0.4284

**Deuteranomaly**

39.9530, 0.4710, 0.4237

**Tritanomaly**

39.8029, 0.4662, 0.3505

# Monochromacy



**Original Color**

40.1186, 0.5057, 0.3942

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

37.3677, 0.3821, 0.3648

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.1186, 0.5057, 0.3942 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, 139, 66)` looks like.

```
.text, #text, p{  
    color:rgb(255, 139, 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, 139, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 139, 66) }
```

## Border

The CSS property to change the border of an element to Yxy 40.1186, 0.5057, 0.3942 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, 139, 66) }
```

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

```
.border{ border-color:rgb(255, 139, 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, 139, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 139, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 139, 66);  
box-shadow:4px 4px 4px 4px rgb(255, 139,  
66) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.1186, 0.5057, 0.3942 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 139, 66) }
```

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

```
.background{ background-color: rgb(255,  
139, 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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