

# Converting Colors

$Y_{xy}(38.8677, 0.5336, 0.4145)$

Have a look what the booklet for  
Yxy(38.8677, 0.5336, 0.4145)  
contains.

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# Color

**Yxy(38.8683, 0.5336, 0.4145)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8800
RGB	255, 136, 0
RGB Percent	100%, 53%, 0%
CMY	0.0001, 0.4666, 0.9997
CMYK	0.00, 0.47, 1.00, 0.00
HSL	32°, 100%, 50%
HSV	32°, 100%, 100%
XYZ	50.0365, 38.8683, 4.8667
YIQ	156.0770, 114.5800, -17.0680

# Conversions

## Conversions Part 2

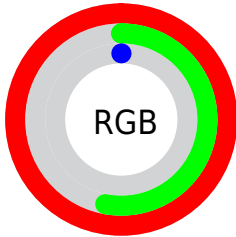
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	223, 255, 0
Decimal	16746496
CIE <sub>Lab</sub>	68.66, 38.83, 74.98
CIE <sub>LCh</sub>	69, 84.438, 62.622
Yxy	38.8683, 0.5336, 0.4145
Android (android.graphics.Color)	4294936576 (0xFFFF8800)
YUV	156.0770, -76.9460, 86.7555
Hunter-Lab	62.3444, 34.1580, 39.0128

# Details

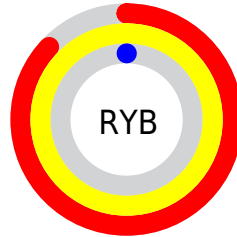
The Yxy color **38.8683, 0.5336, 0.4145** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **20.4147, 0.1732, 0.1435**, and the grayscale version is **33.6003, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.5813, 0.4542, 0.4370**, and **17.4170, 0.5586, 0.3946** is the 20% darker color. If you saturate the color by 10%, you get **38.8614, 0.5336, 0.4145**, and if you desaturate by 10%, it is **42.4831, 0.5153, 0.4211**.

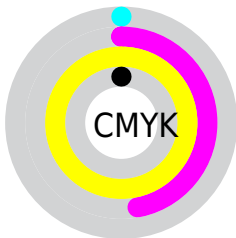
# Distribution



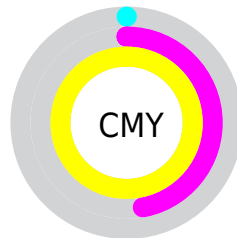
- Red (100%)
- Green (53%)
- Blue (0%)



- Red (87%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (47%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (47%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.8683, 0.5336, 0.4145 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 38.8683, 0.5336, 0.4145 by changing the saturation by 10% instead.





 38.8683, 0.5336,  
0.4145


 38.8683, 0.5336,  
0.4145


341.3302, 0.4307,  
0.3896


 26.6573, 0.5535,  
0.4137


 73.4371, 0.5001,  
0.4107


 17.3160, 0.5757,  
0.4096


 96.5636, 0.4862,  
0.4077


 10.4601, 0.6003,  
0.3997

 124.0975, 0.4740,  
0.4045

 5.7050, 0.6226,  
0.3774

 156.4231, 0.4632,  
0.4013

 2.6666, 0.6553,  
0.3447

 193.9247, 0.4536,  
0.3981


 0.9602, 0.7075,  
0.2925


 236.9869, 0.4451,


 0.0000, 1.0000,


0.3951

0.0000


 285.9939, 0.4375,  
0.3923

 0.0000, 0.0000,  
0.0000


 38.8683, 0.5336,  
0.4145

 38.8683, 0.5336,  
0.4145

 38.8614, 0.5336,  
0.4145

 42.4831, 0.5153,  
0.4211

 46.5738, 0.4933,  
0.4226

 51.1823, 0.4684,  
0.4187

 56.3367, 0.4421,  
0.4104

 62.0622, 0.4159,  
0.3988

68.3813, 0.3910,  
0.3853

75.3152, 0.3680,  
0.3709

82.8836, 0.3473,  
0.3564

91.1052, 0.3289,  
0.3423

# Harmonies

## Analogous

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



38.8683, 0.5448, 0.3360



38.8683, 0.5336, 0.4145



38.8683, 0.4597, 0.4994

# Triad

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



38.8683, 0.5336, 0.4145



38.8683, 0.1655, 0.3832



38.8683, 0.2279, 0.1685

# Complementary

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



38.8683, 0.5336, 0.4145



20.4147, 0.1732, 0.1435

# 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.



38.8683, 0.1567, 0.1598



38.8683, 0.5336, 0.4145



38.8683, 0.1254, 0.2529

# Square

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



38.8683, 0.5336, 0.4145



38.8683, 0.2499, 0.5243



38.8683, 0.1243, 0.1833



38.8683, 0.3416, 0.2051



# Rectangle

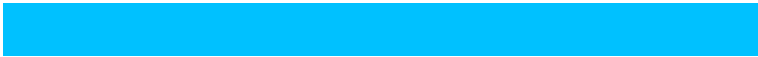
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



38.8683, 0.5336, 0.4145



38.8683, 0.3929, 0.5468



38.8683, 0.1243, 0.1833



38.8683, 0.1993, 0.1624

# Sweetspot

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



38.8704, 0.5336, 0.4145



75.3160, 0.3681, 0.3710



22.5882, 0.5144, 0.2608



15.4786, 0.3775, 0.3771



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.



38.8704, 0.5336, 0.4145



38.8716, 0.5336, 0.4145



91.1796, 0.4134, 0.5099



19.5915, 0.3281, 0.3417



20.6132, 0.5313, 0.4164



2.2258, 0.5150, 0.4293



# Inverse Universe

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



20.4147, 0.1732, 0.1435



20.4109, 0.1732, 0.1434



7.2748, 0.1507, 0.0604



18.7751, 0.2979, 0.3160



10.9576, 0.1740, 0.1464



1.2831, 0.1800, 0.1678



# Previews

## White Background



This preview shows how the Yxy color 38.8683, 0.5336, 0.4145 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 38.8683, 0.5336, 0.4145 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 38.8683, 0.5336, 0.4145**

## Background



This preview shows how black text looks on a background with the Yxy color 38.8683, 0.5336, 0.4145.



This preview shows how white text looks on a background with the Yxy color 38.8683, 0.5336, 0.4145.

# 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

38.8683, 0.5336, 0.4145

### Protanopia

38.8782, 0.4371, 0.4838

### Deuteranopia

38.7933, 0.4723, 0.4632



## Tritanopia

38.7955, 0.4430, 0.3202

# Trichromacy



**Original Color**

38.8683, 0.5336, 0.4145

**Protanomaly**

37.9521, 0.4748, 0.4573

**Deuteranomaly**

38.6272, 0.4957, 0.4446

**Tritanomaly**

38.4671, 0.4944, 0.3710

# Monochromacy



**Original Color**

38.8683, 0.5336, 0.4145

**Achromatopsia**

33.2452, 0.3127, 0.3290

**Achromatomaly**

33.6022, 0.4096, 0.3963

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.8683, 0.5336, 0.4145 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, 136, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 136, 0)  
}
```

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, 136, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 136, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 38.8683, 0.5336, 0.4145 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, 136, 0) }
```

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

```
.border{ border-color:rgb(255, 136, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 136, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 136, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 136, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 136,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.8683, 0.5336, 0.4145 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 136, 0) }
```

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

```
.background{ background-color: rgb(255,  
136, 0) }
```

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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