

# Converting Colors

$Y_{xy}(37.4134, 0.5324, 0.4155)$

Have a look what the booklet for  
Yxy(37.4134, 0.5324, 0.4155)  
contains.

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**Color**

**Yxy(37.3742, 0.5327, 0.4152)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FA8600
RGB	250, 134, 0
RGB Percent	98%, 53%, 0%
CMY	0.0196, 0.4745, 0.9995
CMYK	0.00, 0.46, 1.00, 0.02
HSL	32°, 100%, 49%
HSV	32°, 100%, 98%
XYZ	47.9510, 37.3742, 4.6898
YIQ	153.4080, 112.1500, -17.0820

# Conversions

## Conversions Part 2

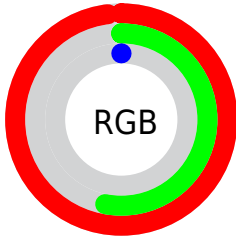
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	216, 250, 0
Decimal	16418304
CIE Lab	67.56, 37.88, 73.96
CIE LCh	68, 83.092, 62.880
Yxy	37.3742, 0.5327, 0.4152
Android (android.graphics.Color)	4294608384 (0xFFFA8600)
YUV	153.4080, -75.6301, 84.7112
Hunter-Lab	61.1344, 33.0217, 38.2458

# Details

The Yxy color **37.3742, 0.5327, 0.4152** 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 **19.4211, 0.1731, 0.1429**, and the grayscale version is **32.3497, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.7075, 0.4564, 0.4359**, and **16.4737, 0.5580, 0.3951** is the 20% darker color. If you saturate the color by 10%, you get **37.3606, 0.5328, 0.4152**, and if you desaturate by 10%, it is **40.8329, 0.5145, 0.4217**.

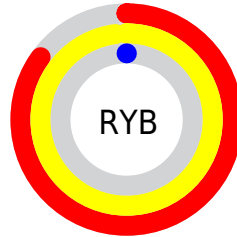
# Distribution



Red (98%)

Green (53%)

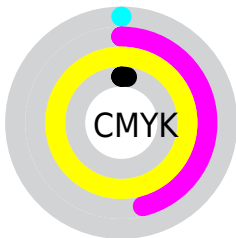
Blue (0%)



Red (85%)

Yellow (98%)

Blue (0%)

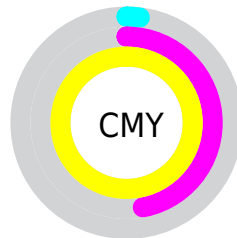


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (47%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.3742, 0.5327, 0.4152 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 37.3742, 0.5327, 0.4152 by changing the saturation by 10% instead.





 37.3742, 0.5327,  
0.4152


 37.3742, 0.5327,  
0.4152


334.9278, 0.4294,  
0.3896

 25.4974, 0.5528,  
0.4145


 71.1479, 0.4989,  
0.4111

 16.4480, 0.5754,  
0.4105


 93.8136, 0.4850,  
0.4080


 9.8417, 0.5999,  
0.4001


 120.8443, 0.4727,  
0.4047

 5.2941, 0.6226,  
0.3774

 152.6245, 0.4619,  
0.4014

 2.4209, 0.6563,  
0.3437

 189.5386, 0.4523,  
0.3982

 0.8366, 0.7112,  
0.2888


 231.9709, 0.4438,

 0.0000, 1.0000,

0.3952


0.0000


 280.3058, 0.4362,  
0.3923

 0.0000, 0.0000,  
0.0000


 37.3742, 0.5327,  
0.4152


 37.3742, 0.5327,  
0.4152


 37.3606, 0.5328,  
0.4152

 40.8329, 0.5145,  
0.4217

 44.7427, 0.4926,  
0.4231

 49.1434, 0.4678,  
0.4191

 54.0618, 0.4416,  
0.4106

 59.5214, 0.4156,  
0.3990

■ 65.5438, 0.3908,  
0.3854

■ 72.1488, 0.3679,  
0.3710

■ 79.3552, 0.3472,  
0.3565

■ 87.1807, 0.3288,  
0.3423

# Harmonies

## Analogous

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



37.3742, 0.5445, 0.3367



37.3742, 0.5327, 0.4152



37.3742, 0.4587, 0.4998

# Triad

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



37.3742, 0.5327, 0.4152



37.3742, 0.1654, 0.3818



37.3742, 0.2289, 0.1691

# Complementary

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



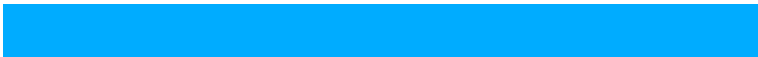
37.3742, 0.5327, 0.4152



19.4211, 0.1731, 0.1429

# 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.



37.3742, 0.1575, 0.1601



37.3742, 0.5327, 0.4152



37.3742, 0.1257, 0.2523

# Square

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



37.3742, 0.5327, 0.4152



37.3742, 0.2493, 0.5227



37.3742, 0.1248, 0.1833



37.3742, 0.3426, 0.2059



# Rectangle

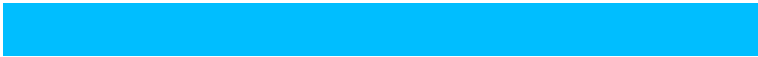
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



37.3742, 0.5327, 0.4152



37.3742, 0.3920, 0.5467



37.3742, 0.1248, 0.1833



37.3742, 0.2003, 0.1629

# Sweetspot

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



37.3762, 0.5327, 0.4152



75.4125, 0.3680, 0.3711



21.6052, 0.5141, 0.2606



15.5015, 0.3775, 0.3773



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.



37.3762, 0.5327, 0.4152



39.0453, 0.5329, 0.4151



87.1928, 0.4134, 0.5099



18.7655, 0.3280, 0.3417



20.1080, 0.5304, 0.4170



2.0746, 0.5135, 0.4305



# Inverse Universe

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



19.4211, 0.1731, 0.1429



20.2651, 0.1730, 0.1426



6.9594, 0.1507, 0.0604



17.9711, 0.2980, 0.3160



10.5745, 0.1738, 0.1458



1.1892, 0.1801, 0.1683



# Previews

## White Background



This preview shows how the Yxy color 37.3742, 0.5327, 0.4152 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 37.3742, 0.5327, 0.4152 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 37.3742, 0.5327, 0.4152**

## Background



This preview shows how black text looks on a background with the Yxy color 37.3742, 0.5327, 0.4152.



This preview shows how white text looks on a background with the Yxy color 37.3742, 0.5327, 0.4152.

# 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

37.3742, 0.5327, 0.4152

### Protanopia

37.4035, 0.4373, 0.4833

### Deuteranopia

37.5238, 0.4710, 0.4642



## Tritanopia

37.4315, 0.4500, 0.3212

# Trichromacy



**Original Color**

37.3742, 0.5327, 0.4152

**Protanomaly**

36.6956, 0.4735, 0.4582

**Deuteranomaly**

37.1829, 0.4939, 0.4460

**Tritanomaly**

36.9769, 0.4989, 0.3700

# Monochromacy



**Original Color**

37.3742, 0.5327, 0.4152

**Achromatopsia**

31.8547, 0.3127, 0.3290

**Achromatomaly**

32.1122, 0.4093, 0.3962

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.3742, 0.5327, 0.4152 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(250, 134, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 134, 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(250, 134, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 134, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 37.3742, 0.5327, 0.4152 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(250, 134, 0) }
```

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

```
.border{ border-color:rgb(250, 134, 0) }
```

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

Here you see how a box with a 4 pixel rgb(250, 134, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 134, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 134, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 134,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.3742, 0.5327, 0.4152 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 134, 0) }
```

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

```
.background{ background-color: rgb(250,  
134, 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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