

# Converting Colors

$Y_{xy}(39.9208, 0.5221, 0.4237)$

Have a look what the booklet for  
Yxy(39.9208, 0.5221, 0.4237)  
contains.

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**Color**

**Yxy(39.9689, 0.5220, 0.4237)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | FA8F00                       |
| RGB         | 250, 143, 0                  |
| RGB Percent | 98%, 56%, 0%                 |
| CMY         | 0.0197, 0.4391, 0.9996       |
| CMYK        | 0.00, 0.43, 1.00, 0.02       |
| HSL         | 34°, 100%, 49%               |
| HSV         | 34°, 100%, 98%               |
| XYZ         | 49.2418, 39.9689, 5.1223     |
| YIQ         | 158.6910, 109.6750, -21.7890 |

# Conversions

## Conversions Part 2

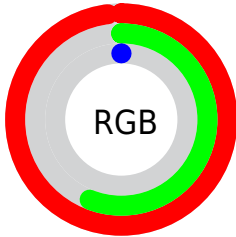
| Format                              | Color                          |
|-------------------------------------|--------------------------------|
| <b>RYB</b>                          | 187, 250, 0                    |
| Decimal                             | 16420608                       |
| CIELab                              | 69.45, 33.27, 75.12            |
| CIELCh                              | 69, 82.161, 66.114             |
| Yxy                                 | 39.9689, 0.5220,<br>0.4237     |
| Android<br>(android.graphics.Color) | 4294610688<br>(0xFFFA8F00)     |
| YUV                                 | 158.6910, -78.2347,<br>80.0780 |
| Hunter-Lab                          | 63.2210, 28.3942,<br>39.4509   |

# Details

The Yxy color **39.9689, 0.5220, 0.4237** 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 **17.4316, 0.1699, 0.1315**, and the grayscale version is **34.8569, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.7005, 0.4480, 0.4425**, and **18.0934, 0.5423, 0.4076** is the 20% darker color. If you saturate the color by 10%, you get **39.9565, 0.5221, 0.4237**, and if you desaturate by 10%, it is **43.4096, 0.5053, 0.4293**.

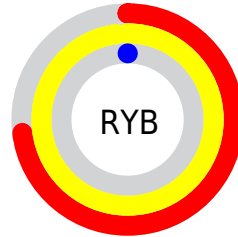
# Distribution



Red (98%)

Green (56%)

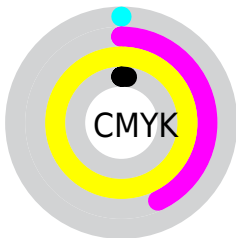
Blue (0%)



Red (73%)

Yellow (98%)

Blue (0%)

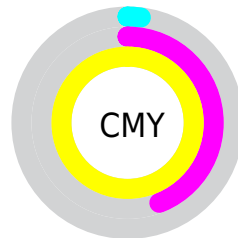


Cyan (0%)

Magenta (43%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (44%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.9689, 0.5220, 0.4237 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 39.9689, 0.5220, 0.4237 by changing the saturation by 10% instead.





 39.9689, 0.5220,  
0.4237


 39.9689, 0.5220,  
0.4237


345.9925, 0.4251,  
0.3931


 27.5143, 0.5405,  
0.4246


 75.1162, 0.4906,  
0.4176


 17.9599, 0.5609,  
0.4224


 98.5776, 0.4775,  
0.4138


 10.9212, 0.5842,  
0.4158


 126.4768, 0.4660,  
0.4099

 6.0138, 0.6034,  
0.3966

 159.1981, 0.4558,  
0.4061

 2.8535, 0.6319,  
0.3681

 197.1259, 0.4468,  
0.4026


 1.0557, 0.6779,  
0.3221

 240.6446, 0.4388,


 0.0000, 1.0000,


0.3992


0.0000


 290.1387, 0.4316,  
0.3960

 0.0000, 0.0000,  
0.0000

 39.9689, 0.5220,  
0.4237


 39.9689, 0.5220,  
0.4237


 39.9565, 0.5221,  
0.4237

 43.4096, 0.5053,  
0.4293

 47.2530, 0.4852,  
0.4298

 51.5367, 0.4622,  
0.4250

 56.2851, 0.4377,  
0.4158

 61.5194, 0.4130,  
0.4034

67.2593, 0.3893,  
0.3890

73.5225, 0.3671,  
0.3737

80.3259, 0.3469,  
0.3583

87.6852, 0.3287,  
0.3432

# Harmonies

## Analogous

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



39.9689, 0.5403, 0.3458



39.9689, 0.5220, 0.4237



39.9689, 0.4465, 0.5049

# Triad

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



39.9689, 0.5220, 0.4237



39.9689, 0.1633, 0.3646



39.9689, 0.2416, 0.1754

# Complementary

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



39.9689, 0.5220, 0.4237



17.4316, 0.1699, 0.1315

# 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.



39.9689, 0.1669, 0.1637



39.9689, 0.5220, 0.4237



39.9689, 0.1284, 0.2452

# Square

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



39.9689, 0.5220, 0.4237



39.9689, 0.2416, 0.5039



39.9689, 0.1309, 0.1830



39.9689, 0.3556, 0.2144



# Rectangle

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



39.9689, 0.5220, 0.4237



39.9689, 0.3804, 0.5457



39.9689, 0.1309, 0.1830



39.9689, 0.2120, 0.1684

# Sweetspot

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



39.9710, 0.5220, 0.4237



76.8716, 0.3672, 0.3738



21.4135, 0.5284, 0.2685



15.8475, 0.3764, 0.3804



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.



39.9710, 0.5220, 0.4237



41.7696, 0.5222, 0.4236



85.7360, 0.4075, 0.5146



18.8735, 0.3280, 0.3426



21.4896, 0.5199, 0.4254



2.2007, 0.5046, 0.4375



# Inverse Universe

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



17.4316, 0.1699, 0.1315



18.1907, 0.1698, 0.1312



7.0203, 0.1515, 0.0609



17.8647, 0.2979, 0.3151



9.5127, 0.1707, 0.1344



1.0867, 0.1771, 0.1576



# Previews

## White Background



This preview shows how the Yxy color 39.9689, 0.5220, 0.4237 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 39.9689, 0.5220, 0.4237 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 39.9689, 0.5220, 0.4237**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.9689, 0.5220, 0.4237.



This preview shows how white text looks on a background with the Yxy color 39.9689, 0.5220, 0.4237.

# 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

39.9689, 0.5220, 0.4237

### Protanopia

40.3828, 0.4371, 0.4845

### Tritanopia

39.9881, 0.4363, 0.3201

# Trichromacy



## Original Color

39.9689, 0.5220, 0.4237

## Protanomaly

39.6649, 0.4690, 0.4621

## Tritanomaly

39.5122, 0.4867, 0.3749

# Monochromacy



## Original Color

39.9689, 0.5220, 0.4237

## Achromatopsia

34.6704, 0.3127, 0.3290

## Achromatomaly

34.9285, 0.4050, 0.3988

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.9689, 0.5220, 0.4237 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, 143, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 143, 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, 143, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 143, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 39.9689, 0.5220, 0.4237 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, 143, 0) }
```

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

```
.border{ border-color:rgb(250, 143, 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, 143, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 143, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 143, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 143,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 39.9689, 0.5220, 0.4237 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 143, 0) }
```

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

```
.background{ background-color: rgb(250,  
143, 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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