

# Converting Colors

$Y_{xy}(34.8524, 0.5401, 0.4093)$

Have a look what the booklet for  
Yxy(34.8524, 0.5401, 0.4093)  
contains.

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# Color

**Yxy(34.6959, 0.5403, 0.4092)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F77E00
RGB	247, 126, 0
RGB Percent	97%, 49%, 0%
CMY	0.0315, 0.5058, 1.0000
CMYK	0.00, 0.49, 1.00, 0.03
HSL	31°, 100%, 48%
HSV	31°, 100%, 97%
XYZ	45.8118, 34.6959, 4.2819
YIQ	147.8150, 112.5620, -13.5340

# Conversions

## Conversions Part 2

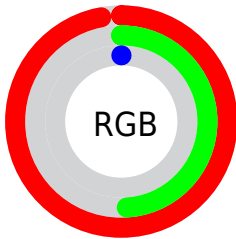
Format	Color
R <sub>Y</sub> B	237, 247, 0
Decimal	16219648
CIE Lab	65.51, 40.69, 72.52
CIE LCh	66, 83.157, 60.708
Yxy	34.6959, 0.5403, 0.4092
Android (android.graphics.Color)	4294409728 (0xFFFF77E00)
YUV	147.8150, -72.8728, 86.9852
Hunter-Lab	58.9032, 35.7472, 36.9223

# Details

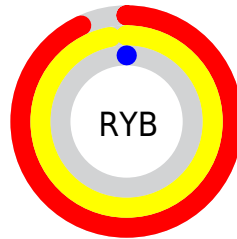
The Yxy color **34.6959, 0.5403, 0.4092** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **20.3756, 0.1754, 0.1513**, and the grayscale version is **29.8106, 0.3127, 0.3290**.

A 20% lighter version of the original color is **54.3704, 0.4638, 0.4294**, and **14.9648, 0.5683, 0.3870** is the 20% darker color. If you saturate the color by 10%, you get **34.6978, 0.5403, 0.4092**, and if you desaturate by 10%, it is **38.0500, 0.5210, 0.4162**.

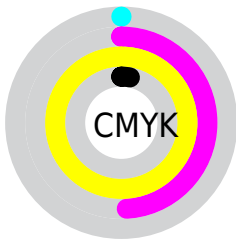
# Distribution



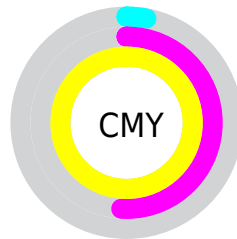
- Red (97%)
- Green (49%)
- Blue (0%)



- Red (93%)
- Yellow (97%)
- Blue (0%)



- Cyan (0%)
- Magenta (49%)
- Yellow (100%)
- Black (3%)




- Cyan (3%)
- Magenta (51%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.6959, 0.5403, 0.4092 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 34.6959, 0.5403, 0.4092 by changing the saturation by 10% instead.





 34.6959, 0.5403,  
0.4092


 34.6959, 0.5403,  
0.4092


323.2240, 0.4319,  
0.3869


 23.4287, 0.5617,  
0.4074


 67.0144, 0.5045,  
0.4066


 14.9104, 0.5866,  
0.4022


 88.8345, 0.4899,  
0.4039


 8.7565, 0.6116,  
0.3884


 114.9410, 0.4770,  
0.4010

 4.5827, 0.6373,  
0.3627

 145.7184, 0.4657,  
0.3980

 2.0046, 0.6760,  
0.3240

 181.5510, 0.4557,  
0.3950


 0.6101, 0.7474,  
0.2526


 222.8232, 0.4469,


 0.0000, 1.0000,


0.3922

0.0000


 269.9194, 0.4390,  
0.3895


 0.0000, 0.0000,  
0.0000


 34.6959, 0.5403,  
0.4092


 34.6959, 0.5403,  
0.4092

 34.6978, 0.5403,  
0.4092

 38.0500, 0.5210,  
0.4162

 41.8761, 0.4979,  
0.4182

 46.2152, 0.4717,  
0.4148

 51.0951, 0.4444,  
0.4069

 56.5404, 0.4174,  
0.3959

■ 62.5738, 0.3919,  
0.3829

■ 69.2162, 0.3685,  
0.3691

■ 76.4871, 0.3475,  
0.3553

■ 84.4053, 0.3290,  
0.3418

# Harmonies

## Analogous

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



34.6959, 0.5474, 0.3304



34.6959, 0.5403, 0.4092



34.6959, 0.4673, 0.4960

# Triad

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



34.6959, 0.5403, 0.4092



34.6959, 0.1667, 0.3944



34.6959, 0.2202, 0.1645

# Complementary

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



34.6959, 0.5403, 0.4092



20.3756, 0.1754, 0.1513

# 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.



34.6959, 0.1510, 0.1575



34.6959, 0.5403, 0.4092



34.6959, 0.1236, 0.2574

# Square

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



34.6959, 0.5403, 0.4092



34.6959, 0.2546, 0.5360



34.6959, 0.1205, 0.1834



34.6959, 0.3335, 0.1999



# Rectangle

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



34.6959, 0.5403, 0.4092



34.6959, 0.4000, 0.5470



34.6959, 0.1205, 0.1834



34.6959, 0.1923, 0.1589

# Sweetspot

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



34.6978, 0.5403, 0.4092



74.3973, 0.3686, 0.3692



21.2116, 0.4998, 0.2527



15.2613, 0.3782, 0.3751



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.



34.6978, 0.5403, 0.4092



37.2579, 0.5405, 0.4090



86.2745, 0.4193, 0.5053



17.8807, 0.3281, 0.3411



18.6404, 0.5378, 0.4112



1.8441, 0.5189, 0.4262



# Inverse Universe

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



20.3756, 0.1754, 0.1513



21.8562, 0.1753, 0.1510



6.7138, 0.1500, 0.0600



17.2667, 0.2980, 0.3166



11.0612, 0.1762, 0.1543



1.1773, 0.1826, 0.1772



# Previews

## White Background



This preview shows how the Yxy color 34.6959, 0.5403, 0.4092 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 34.6959, 0.5403, 0.4092 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 34.6959, 0.5403, 0.4092**

## Background



This preview shows how black text looks on a background with the Yxy color 34.6959, 0.5403, 0.4092.



This preview shows how white text looks on a background with the Yxy color 34.6959, 0.5403, 0.4092.

# 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

34.6959, 0.5403, 0.4092

### Protanopia

34.8991, 0.4366, 0.4833

### Deuteranopia

34.6898, 0.4727, 0.4629



## Tritanopia

34.7125, 0.4614, 0.3213

# Trichromacy



**Original Color**

34.6959, 0.5403, 0.4092

**Protanomaly**

34.0462, 0.4762, 0.4558

**Deuteranomaly**

34.2514, 0.4984, 0.4424

**Tritanomaly**

34.3361, 0.5082, 0.3667

# Monochromacy



**Original Color**

34.6959, 0.5403, 0.4092

**Achromatopsia**

29.6138, 0.3127, 0.3290

**Achromatomaly**

29.7547, 0.4122, 0.3935

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.6959, 0.5403, 0.4092 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(247, 126, 0)` looks like.

```
.text, #text, p{  
    color:rgb(247, 126, 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(247, 126, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 126, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 34.6959, 0.5403, 0.4092 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(247, 126, 0) }
```

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

```
.border{ border-color:rgb(247, 126, 0) }
```

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

Here you see how a box with a 4 pixel rgb(247, 126, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 126, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 126, 0);  
box-shadow:4px 4px 4px 4px rgb(247, 126,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.6959, 0.5403, 0.4092 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 126, 0) }
```

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

```
.background{ background-color: rgb(247,  
126, 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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