

# Converting Colors

$Y_{xy}(34.3038, 0.5661, 0.3963)$

Have a look what the booklet for  
Yxy(34.3038, 0.5661, 0.3963)  
contains.

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# **Color**

**Yxy(33.5215, 0.5582, 0.3950)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7300
RGB	255, 115, 0
RGB Percent	100%, 45%, 0%
CMY	0.0000, 0.5490, 1.0000
CMYK	0.00, 0.55, 1.00, 0.00
HSL	27°, 100%, 50%
HSV	27°, 100%, 100%
XYZ	47.3714, 33.5215, 3.9717
YIQ	143.7500, 120.3550, -6.0850

# Conversions

## Conversions Part 2

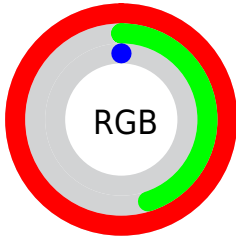
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 209, 0
Decimal	16741120
CIE Lab	64.58, 49.09, 72.60
CIE LCh	65, 87.645, 55.934
Yxy	33.5215, 0.5582, 0.3950
Android (android.graphics.Color)	4294931200 (0xFFFF7300)
YUV	143.7500, -70.8688, 97.5662
Hunter-Lab	57.8978, 44.7259, 36.4613

# Details

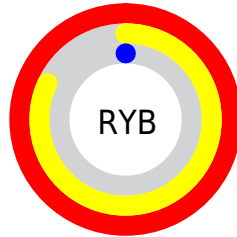
The Yxy color **33.5215, 0.5582, 0.3950** is a dark color, and the websafe version is hex **FF6600**, and the color name is **philippine orange**. The color can be described as dark saturated orange. A complement of this color would be **25.9742, 0.1809, 0.1714**, and the grayscale version is **28.0396, 0.3127, 0.3290**.

A 20% lighter version of the original color is **50.4516, 0.4738, 0.4214**, and **14.2846, 0.5912, 0.3687** is the 20% darker color. If you saturate the color by 10%, you get **33.5230, 0.5582, 0.3950**, and if you desaturate by 10%, it is **37.0345, 0.5367, 0.4034**.

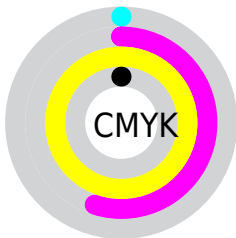
# Distribution



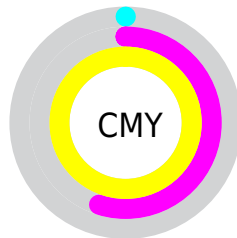
- Red (100%)
- Green (45%)
- Blue (0%)



- Red (100%)
- Yellow (82%)
- Blue (0%)



- Cyan (0%)
- Magenta (55%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (55%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.5215, 0.5582, 0.3950 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 33.5215, 0.5582, 0.3950 by changing the saturation by 10% instead.





 33.5215, 0.5582,  
0.3950


 33.5215, 0.5582,  
0.3950


317.9931, 0.4406,  
0.3818


 22.5262, 0.5815,  
0.3906


 65.1889, 0.5193,  
0.3960

 14.2441, 0.6095,  
0.3825


 86.6298, 0.5033,  
0.3946

 8.2906, 0.6361,  
0.3639


 112.3213, 0.4894,  
0.3928

 4.2815, 0.6663,  
0.3337

 142.6480, 0.4771,  
0.3906

 1.8322, 0.7107,  
0.2893

 177.9941, 0.4663,  
0.3884

 0.5071, 0.7969,  
0.2031

 218.7441, 0.4567,


 0.0000, 1.0000,


0.3861


0.0000

 265.2823, 0.4482,  
0.3839

 0.0000, 0.0000,  
0.0000


 33.5215, 0.5582,  
0.3950

 33.5215, 0.5582,  
0.3950

 33.5230, 0.5582,  
0.3950

 37.0345, 0.5367,  
0.4034

 41.1456, 0.5107,  
0.4067

 45.9044, 0.4815,  
0.4047

 51.3467, 0.4513,  
0.3982

 57.5047, 0.4219,  
0.3885

■ 64.4080, 0.3946,  
0.3770

■ 72.0840, 0.3700,  
0.3647

■ 80.5586, 0.3482,  
0.3523

■ 89.8561, 0.3292,  
0.3403

# Harmonies

## Analogous

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



33.5215, 0.5540, 0.3156



33.5215, 0.5582, 0.3950



33.5215, 0.4871, 0.4859

# Triad

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



33.5215, 0.5582, 0.3950



33.5215, 0.1697, 0.4260



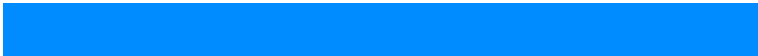
33.5215, 0.2004, 0.1540

# Complementary

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



33.5215, 0.5582, 0.3950



25.9742, 0.1809, 0.1714

# 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.



33.5215, 0.1362, 0.1513



33.5215, 0.5582, 0.3950



33.5215, 0.1187, 0.2702

# Square

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



33.5215, 0.5582, 0.3950



33.5215, 0.2665, 0.5667



33.5215, 0.1105, 0.1837



33.5215, 0.3123, 0.1859



# Rectangle

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



33.5215, 0.5582, 0.3950



33.5215, 0.4182, 0.5457



33.5215, 0.1105, 0.1837



33.5215, 0.1740, 0.1498

# Sweetspot

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



33.5230, 0.5582, 0.3950



72.0840, 0.3700, 0.3647



23.1608, 0.4786, 0.2410



14.7157, 0.3800, 0.3699



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.



33.5230, 0.5582, 0.3950



84.9132, 0.4285, 0.4980



19.3362, 0.3283, 0.3398



17.8052, 0.5554, 0.3972



1.9482, 0.5361, 0.4126

# Inverse Universe

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



25.9742, 0.1809, 0.1714



7.5015, 0.1506, 0.0621



19.0310, 0.2979, 0.3180



13.8747, 0.1817, 0.1741



1.5693, 0.1870, 0.1932

# Previews

## White Background



This preview shows how the Yxy color 33.5215, 0.5582, 0.3950 looks on a white background.

## Color Contrast Check

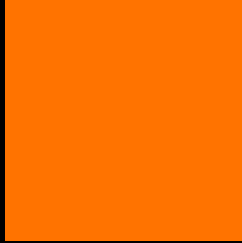
Large Text (above 18pt) WCAG AA × Fail

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 33.5215, 0.5582, 0.3950 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 33.5215, 0.5582, 0.3950**

## Background



This preview shows how black text looks on a background with the Yxy color 33.5215, 0.5582, 0.3950.



This preview shows how white text looks on a background with the Yxy color 33.5215, 0.5582, 0.3950.



# 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

33.5215, 0.5582, 0.3950

### Protanopia

33.5270, 0.4360, 0.4816

### Deuteranopia

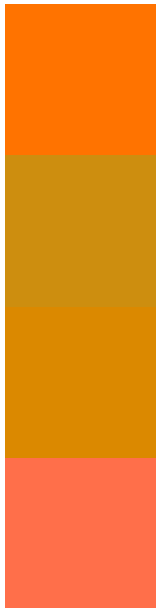
33.5007, 0.4714, 0.4639



## Tritanopia

33.4582, 0.4809, 0.3227

# Trichromacy



**Original Color**

33.5215, 0.5582, 0.3950

**Protanomaly**

32.3596, 0.4842, 0.4485

**Deuteranomaly**

32.9514, 0.5057, 0.4367

**Tritanomaly**

33.1233, 0.5257, 0.3615

# Monochromacy



**Original Color**

33.5215, 0.5582, 0.3950

**Achromatopsia**

27.8894, 0.3127, 0.3290

**Achromatomaly**

27.7381, 0.4195, 0.3868

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.5215, 0.5582, 0.3950 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, 115, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 115, 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, 115, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 115, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 33.5215, 0.5582, 0.3950 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, 115, 0) }
```

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

```
.border{ border-color:rgb(255, 115, 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, 115, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 115, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 115, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 115,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 33.5215, 0.5582, 0.3950 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 115, 0) }
```

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

```
.background{ background-color: rgb(255,  
115, 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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