

# Converting Colors

$Y_{xy}(34.3100, 0.5542, 0.3981)$

Have a look what the booklet for  
Yxy(34.3100, 0.5542, 0.3981)  
contains.

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# Color

**Yxy(34.2169, 0.5547, 0.3978)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7600
RGB	255, 118, 0
RGB Percent	100%, 46%, 0%
CMY	0.0001, 0.5372, 1.0000
CMYK	0.00, 0.54, 1.00, 0.00
HSL	28°, 100%, 50%
HSV	28°, 100%, 100%
XYZ	47.7127, 34.2169, 4.0857
YIQ	145.5110, 119.5300, -7.6540

# Conversions

## Conversions Part 2

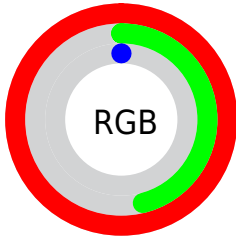
Format	Color
R <sub>Y</sub> B	255, 220, 0
Decimal	16741888
CIE Lab	65.13, 47.66, 72.93
CIE LCh	65, 87.121, 56.835
Yxy	34.2169, 0.5547, 0.3978
Android (android.graphics.Color)	4294931968 (0xFFFF7600)
YUV	145.5110, -71.7369, 96.0219
Hunter-Lab	58.4952, 43.2302, 36.8054

# Details

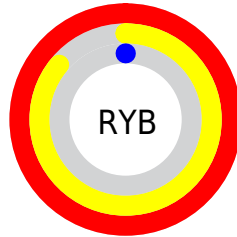
The Yxy color **34.2169, 0.5547, 0.3978** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **25.0972, 0.1798, 0.1672**, and the grayscale version is **28.7998, 0.3127, 0.3290**.

A 20% lighter version of the original color is **51.6021, 0.4705, 0.4236**, and **14.7277, 0.5858, 0.3731** is the 20% darker color. If you saturate the color by 10%, you get **34.2191, 0.5547, 0.3978**, and if you desaturate by 10%, it is **37.7555, 0.5336, 0.4060**.

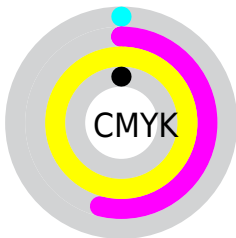
# Distribution



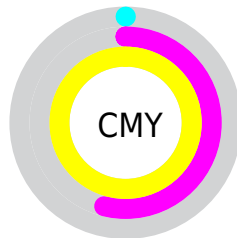
- Red (100%)
- Green (46%)
- Blue (0%)



- Red (100%)
- Yellow (86%)
- Blue (0%)



- Cyan (0%)
- Magenta (54%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (54%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.2169, 0.5547, 0.3978 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 34.2169, 0.5547, 0.3978 by changing the saturation by 10% instead.





 34.2169, 0.5547,  
0.3978


 34.2169, 0.5547,  
0.3978


321.0981, 0.4392,  
0.3829

 23.0603, 0.5775,  
0.3939


 66.2708, 0.5166,  
0.3981


 14.6380, 0.6046,  
0.3863


 87.9369, 0.5009,  
0.3965


 8.5657, 0.6310,  
0.3690


 113.8750, 0.4872,  
0.3944

 4.4590, 0.6600,  
0.3400

 144.4693, 0.4751,  
0.3921

 1.9335, 0.7028,  
0.2972

 180.1044, 0.4645,  
0.3897

 0.5684, 0.7814,  
0.2186


 221.1647, 0.4551,


 0.0000, 1.0000,


0.3874


0.0000


 268.0344, 0.4467,  
0.3851

 0.0000, 0.0000,  
0.0000


 34.2169, 0.5547,  
0.3978

 34.2169, 0.5547,  
0.3978


 34.2191, 0.5547,  
0.3978

 37.7555, 0.5336,  
0.4060

 41.8735, 0.5082,  
0.4091

 46.6197, 0.4796,  
0.4067

 52.0287, 0.4500,  
0.3999

 58.1314, 0.4211,  
0.3900

64.9563, 0.3941,  
0.3782

72.5296, 0.3697,  
0.3656

80.8762, 0.3481,  
0.3529

90.0197, 0.3291,  
0.3406

# Harmonies

## Analogous

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



34.2169, 0.5527, 0.3185



34.2169, 0.5547, 0.3978



34.2169, 0.4832, 0.4880

# Triad

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



34.2169, 0.5547, 0.3978



34.2169, 0.1691, 0.4196



34.2169, 0.2042, 0.1560

# Complementary

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



34.2169, 0.5547, 0.3978



25.0972, 0.1798, 0.1672

# 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.



34.2169, 0.1391, 0.1525



34.2169, 0.5547, 0.3978



34.2169, 0.1196, 0.2676

# Square

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



34.2169, 0.5547, 0.3978



34.2169, 0.2642, 0.5608



34.2169, 0.1124, 0.1836



34.2169, 0.3165, 0.1886



# Rectangle

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



34.2169, 0.5547, 0.3978



34.2169, 0.4147, 0.5462



34.2169, 0.1124, 0.1836



34.2169, 0.1775, 0.1515

# Sweetspot

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



34.2191, 0.5547, 0.3978



72.5422, 0.3697, 0.3656



23.1568, 0.4785, 0.2410



14.8236, 0.3796, 0.3710



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.



34.2191, 0.5547, 0.3978



34.2250, 0.5547, 0.3978



84.8983, 0.4285, 0.4980



19.3728, 0.3283, 0.3400



18.1749, 0.5519, 0.4000



1.9855, 0.5330, 0.4150



# Inverse Universe

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



25.0972, 0.1798, 0.1672



25.1015, 0.1798, 0.1672



7.5002, 0.1506, 0.0621



18.9939, 0.2979, 0.3177



13.4183, 0.1806, 0.1700



1.5252, 0.1860, 0.1894



# Previews

## White Background



This preview shows how the Yxy color 34.2169, 0.5547, 0.3978 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

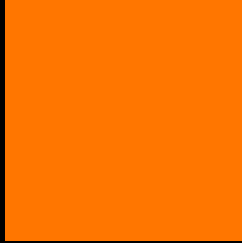
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 34.2169, 0.5547, 0.3978 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 34.2169, 0.5547, 0.3978**

## **Background**



This preview shows how black text looks on a background with the Yxy color 34.2169, 0.5547, 0.3978.



This preview shows how white text looks on a background with the Yxy color 34.2169, 0.5547, 0.3978.

# 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

34.2169, 0.5547, 0.3978

### Protanopia

34.4418, 0.4362, 0.4824

### Deuteranopia

34.0921, 0.4720, 0.4634



## Tritanopia

34.1803, 0.4754, 0.3226

# Trichromacy



## Original Color

34.2169, 0.5547, 0.3978

## Protanomaly

33.2464, 0.4835, 0.4491

## Deuteranomaly

33.3926, 0.5052, 0.4370

## Tritanomaly

33.8164, 0.5211, 0.3629

# Monochromacy



## Original Color

34.2169, 0.5547, 0.3978

## Achromatopsia

28.7441, 0.3127, 0.3290

## Achromatomaly

28.8377, 0.4184, 0.3889

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.2169, 0.5547, 0.3978 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, 118, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 118, 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, 118, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 118, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 34.2169, 0.5547, 0.3978 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, 118, 0) }
```

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

```
.border{ border-color:rgb(255, 118, 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, 118, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 118, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 118, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 118,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.2169, 0.5547, 0.3978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 118, 0) }
```

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

```
.background{ background-color: rgb(255,  
118, 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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