

# Converting Colors

$Y_{xy}(44.8940, 0.5110, 0.4324)$

Have a look what the booklet for  
Yxy(44.8940, 0.5110, 0.4324)  
contains.

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# Color

**Yxy(45.0369, 0.5106, 0.4328)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9C00
RGB	255, 156, 0
RGB Percent	100%, 61%, 0%
CMY	0.0000, 0.3882, 1.0000
CMYK	0.00, 0.39, 1.00, 0.00
HSL	37°, 100%, 50%
HSV	37°, 100%, 100%
XYZ	53.1327, 45.0369, 5.8898
YIQ	167.8170, 109.0800, -27.5280

# Conversions

## Conversions Part 2

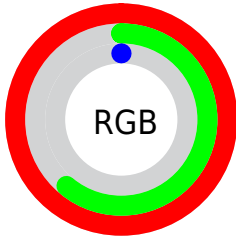
Format	Color
<a href="#">RYB</a>	<a href="#">162, 255, 0</a>
Decimal	<a href="#">16751616</a>
CIELab	<a href="#">72.92, 28.63, 77.67</a>
CIELCh	<a href="#">73, 82.773, 69.766</a>
Yxy	<a href="#">45.0369, 0.5106, 0.4328</a>
Android (android.graphics.Color)	<a href="#">4294941696</a> (0xFFFF9C00)
YUV	<a href="#">167.8170, -82.7338, 76.4595</a>
Hunter-Lab	<a href="#">67.1095, 23.8823, 41.7732</a>

# Details

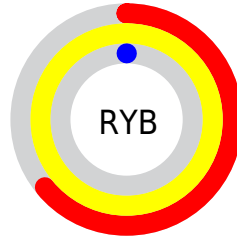
The Yxy color **45.0369, 0.5106, 0.4328** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **16.1440, 0.1665, 0.1194**, and the grayscale version is **39.4361, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.3986, 0.4358, 0.4522**, and **20.9770, 0.5280, 0.4190** is the 20% darker color. If you saturate the color by 10%, you get **45.0364, 0.5106, 0.4328**, and if you desaturate by 10%, it is **48.5679, 0.4957, 0.4374**.

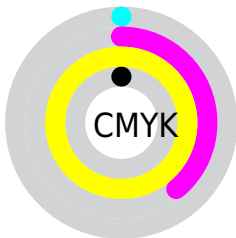
# Distribution



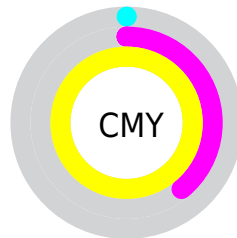
- Red (100%)
- Green (61%)
- Blue (0%)



- Red (64%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (39%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (39%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0369, 0.5106, 0.4328 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 45.0369, 0.5106, 0.4328 by changing the saturation by 10% instead.




 45.0369, 0.5106,  
0.4328

 45.0369, 0.5106,  
0.4328


366.9230, 0.4214,  
0.3974


 31.4865, 0.5272,  
0.4353

 82.7758, 0.4821,  
0.4247

 20.9696, 0.5451,  
0.4352


 107.7330, 0.4701,  
0.4202


 13.1018, 0.5670,  
0.4330


 137.2614, 0.4595,  
0.4158

 7.4987, 0.5820,  
0.4180

 171.7452, 0.4501,  
0.4116

 3.7759, 0.6039,  
0.3961

 211.5689, 0.4417,  
0.4077

 1.5490, 0.6386,  
0.3614


 257.1168, 0.4342,

 0.3228, 0.7590,

0.4040


 308.7734, 0.4274,  
0.4006

0.2410


 0.0000, 0.0000,  
0.0000

 45.0369, 0.5106,  
0.4328


 45.0369, 0.5106,  
0.4328


 45.0364, 0.5106,  
0.4328

 48.5679, 0.4957,  
0.4374

 52.4708, 0.4776,  
0.4371

 56.7798, 0.4565,  
0.4316

 61.5185, 0.4337,  
0.4216

 66.7072, 0.4105,  
0.4084

■ 72.3644, 0.3878,  
0.3931

■ 78.5070, 0.3664,  
0.3768

■ 85.1507, 0.3466,  
0.3603

■ 92.3104, 0.3287,  
0.3443

# Harmonies

## Analogous

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



45.0369, 0.5358, 0.3556



45.0369, 0.5106, 0.4328



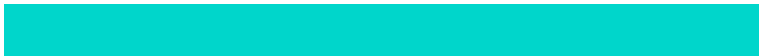
45.0369, 0.4333, 0.5099

# Triad

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



45.0369, 0.5106, 0.4328



45.0369, 0.1610, 0.3472



45.0369, 0.2554, 0.1823

# Complementary

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



45.0369, 0.5106, 0.4328



16.1440, 0.1665, 0.1194

# 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.



45.0369, 0.1772, 0.1674



45.0369, 0.5106, 0.4328



45.0369, 0.1312, 0.2379

# Square

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



45.0369, 0.5106, 0.4328



45.0369, 0.2330, 0.4837



45.0369, 0.1375, 0.1826



45.0369, 0.3696, 0.2236



# Rectangle

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



45.0369, 0.5106, 0.4328



45.0369, 0.3676, 0.5436



45.0369, 0.1375, 0.1826



45.0369, 0.2248, 0.1742

# Sweetspot

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



45.0364, 0.5106, 0.4328



78.5070, 0.3664, 0.3768



22.2193, 0.5427, 0.2763



16.2365, 0.3752, 0.3837



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.



45.0364, 0.5106, 0.4328



88.2604, 0.4015, 0.5194



19.8371, 0.3279, 0.3435



23.8311, 0.5087, 0.4343



2.5326, 0.4957, 0.4446

# Inverse Universe

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



16.1440, 0.1665, 0.1194



7.4331, 0.1526, 0.0614



18.5342, 0.2979, 0.3141



8.7038, 0.1674, 0.1224



1.0520, 0.1736, 0.1448

# Previews

## White Background



This preview shows how the Yxy color 45.0369, 0.5106, 0.4328 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 45.0369, 0.5106, 0.4328 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 45.0369, 0.5106, 0.4328**

## Background



This preview shows how black text looks on a background with the Yxy color 45.0369, 0.5106, 0.4328.



This preview shows how white text looks on a background with the Yxy color 45.0369, 0.5106, 0.4328.



# 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

45.0369, 0.5106, 0.4328

### Protanopia

45.2461, 0.4375, 0.4853

### Deuteranopia

45.0803, 0.4728, 0.4628



## Tritanopia

44.9084, 0.4117, 0.3188

# Trichromacy



## Original Color

45.0369, 0.5106, 0.4328

## Protanomaly

44.5245, 0.4651, 0.4659

## Deuteranomaly

44.9148, 0.4867, 0.4518

## Tritanomaly

44.3328, 0.4672, 0.3790

# Monochromacy



## Original Color

45.0369, 0.5106, 0.4328

## Achromatopsia

39.1572, 0.3127, 0.3290

## Achromatomaly

39.8918, 0.4009, 0.4023

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0369, 0.5106, 0.4328 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, 156, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 156, 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, 156, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 156, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0369, 0.5106, 0.4328 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, 156, 0) }
```

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

```
.border{ border-color:rgb(255, 156, 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, 156, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 156, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 156, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 156,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 45.0369, 0.5106, 0.4328 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 156, 0) }
```

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

```
.background{ background-color: rgb(255,  
156, 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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