

# Converting Colors

$Y_{xy}(44.5630, 0.5122, 0.4315)$

Have a look what the booklet for  
Yxy(44.5630, 0.5122, 0.4315)  
contains.

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# Color

**Yxy(44.7027, 0.5117, 0.4319)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9B00
RGB	255, 155, 0
RGB Percent	100%, 61%, 0%
CMY	0.0000, 0.3921, 0.9999
CMYK	0.00, 0.39, 1.00, 0.00
HSL	36°, 100%, 50%
HSV	36°, 100%, 100%
XYZ	52.9622, 44.7027, 5.8375
YIQ	167.2300, 109.3550, -27.0050

# Conversions

## Conversions Part 2

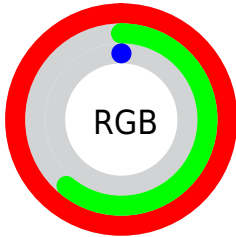
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	165, 255, 0
Decimal	16751360
CIE Lab	72.70, 29.14, 77.51
CIE LCh	73, 82.805, 69.398
Yxy	44.7027, 0.5117, 0.4319
Android (android.graphics.Color)	4294941440 (0xFFFF9B00)
YUV	167.2300, -82.4444, 76.9743
Hunter-Lab	66.8601, 24.3909, 41.6255

# Details

The Yxy color **44.7027, 0.5117, 0.4319** 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 **16.3392, 0.1668, 0.1206**, and the grayscale version is **39.1349, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.9032, 0.4365, 0.4514**, and **20.7769, 0.5295, 0.4177** is the 20% darker color. If you saturate the color by 10%, you get **44.7007, 0.5117, 0.4319**, and if you desaturate by 10%, it is **48.2451, 0.4967, 0.4366**.

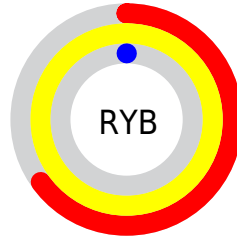
# Distribution



Red (100%)

Green (61%)

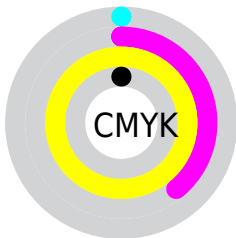
Blue (0%)



Red (65%)

Yellow (100%)

Blue (0%)

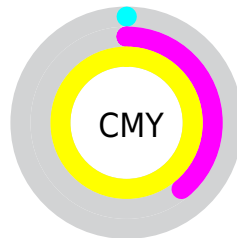


Cyan (0%)

Magenta (39%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (39%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.7027, 0.5117, 0.4319 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 44.7027, 0.5117, 0.4319 by changing the saturation by 10% instead.





 44.7027, 0.5117,  
0.4319

 44.7027, 0.5117,  
0.4319


365.5682, 0.4218,  
0.3970

 31.2233, 0.5285,  
0.4342


 82.2741, 0.4829,  
0.4240

 20.7690, 0.5466,  
0.4339


 107.1349, 0.4709,  
0.4196


 12.9552, 0.5686,  
0.4314


 136.5583, 0.4602,  
0.4152

 7.3977, 0.5840,  
0.4160

 170.9287, 0.4507,  
0.4111

 3.7121, 0.6064,  
0.3936

 210.6305, 0.4422,  
0.4072

 1.5138, 0.6419,  
0.3581

 256.0481, 0.4347,

 0.2984, 0.7709,

0.4035

0.2291

307.5658, 0.4279,  
0.4001

0.0000, 0.0000,  
0.0000

44.7027, 0.5117,  
0.4319

44.7027, 0.5117,  
0.4319

44.7007, 0.5117,  
0.4319


48.2451, 0.4967,  
0.4366


52.1620, 0.4783,  
0.4364


56.4903, 0.4571,  
0.4309


61.2538, 0.4341,  
0.4210

66.4730, 0.4107,  
0.4079

 72.1666, 0.3879,  
0.3927

 78.3516, 0.3664,  
0.3765

 85.0439, 0.3466,  
0.3601

 92.2585, 0.3287,  
0.3442

# Harmonies

## Analogous

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



44.7027, 0.5362, 0.3546



44.7027, 0.5117, 0.4319



44.7027, 0.4346, 0.5094

# Triad

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



44.7027, 0.5117, 0.4319



44.7027, 0.1612, 0.3489



44.7027, 0.2540, 0.1816

# Complementary

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



44.7027, 0.5117, 0.4319



16.3392, 0.1668, 0.1206

# 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.



44.7027, 0.1762, 0.1670



44.7027, 0.5117, 0.4319



44.7027, 0.1309, 0.2387

# Square

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



44.7027, 0.5117, 0.4319



44.7027, 0.2339, 0.4856



44.7027, 0.1369, 0.1827



44.7027, 0.3682, 0.2227



# Rectangle

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



44.7027, 0.5117, 0.4319



44.7027, 0.3689, 0.5438



44.7027, 0.1369, 0.1827



44.7027, 0.2235, 0.1737

# Sweetspot

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



44.7047, 0.5117, 0.4319



78.3439, 0.3664, 0.3765



22.2203, 0.5426, 0.2763



16.1977, 0.3753, 0.3834



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.



44.7047, 0.5117, 0.4319



44.7007, 0.5117, 0.4319



88.2610, 0.4015, 0.5194



19.8247, 0.3279, 0.3434



23.6563, 0.5098, 0.4334



2.5162, 0.4966, 0.4439



# Inverse Universe

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



16.3392, 0.1668, 0.1206



16.3355, 0.1668, 0.1205



7.4341, 0.1526, 0.0615



18.5462, 0.2979, 0.3141



8.8054, 0.1677, 0.1236



1.0627, 0.1739, 0.1460



# Previews

## White Background



This preview shows how the Yxy color 44.7027, 0.5117, 0.4319 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 44.7027, 0.5117, 0.4319 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 44.7027, 0.5117, 0.4319**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.7027, 0.5117, 0.4319.



This preview shows how white text looks on a background with the Yxy color 44.7027, 0.5117, 0.4319.

# 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

44.7027, 0.5117, 0.4319

### Protanopia

44.8438, 0.4385, 0.4844

### Deuteranopia

44.9182, 0.4719, 0.4635



## Tritanopia

44.5618, 0.4132, 0.3188

# Trichromacy



## Original Color

44.7027, 0.5117, 0.4319

## Protanomaly

44.1481, 0.4662, 0.4650

## Deuteranomaly

44.9148, 0.4867, 0.4518

## Tritanomaly

43.9928, 0.4689, 0.3789

# Monochromacy



## Original Color

44.7027, 0.5117, 0.4319

## Achromatopsia

38.6429, 0.3127, 0.3290

## Achromatomaly

39.3771, 0.4014, 0.4026

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.7027, 0.5117, 0.4319 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, 155, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 155, 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, 155, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 155, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 44.7027, 0.5117, 0.4319 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, 155, 0) }
```

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

```
.border{ border-color:rgb(255, 155, 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, 155, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 155, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 155, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 155,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.7027, 0.5117, 0.4319 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 155, 0) }
```

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

```
.background{ background-color: rgb(255,  
155, 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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