

# Converting Colors

$Y_{xy}(49.7762, 0.4957, 0.4446)$

Have a look what the booklet for  
Yxy(49.7762, 0.4957, 0.4446)  
contains.

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**Color**

**Yxy(49.6359, 0.4961, 0.4443)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFA900
RGB	255, 169, 0
RGB Percent	100%, 66%, 0%
CMY	0.0001, 0.3372, 1.0000
CMYK	0.00, 0.34, 1.00, 0.00
HSL	40°, 100%, 50%
HSV	40°, 100%, 100%
XYZ	55.4228, 49.6359, 6.6583
YIQ	175.4480, 105.5050, -34.3270

# Conversions

## Conversions Part 2

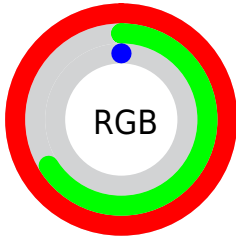
Format	Color
R <sub>YB</sub>	130, 255, 0
Decimal	16754944
CIE Lab	75.85, 21.84, 79.56
CIE LCh	76, 82.501, 74.652
Yxy	49.6359, 0.4961, 0.4443
Android (android.graphics.Color)	4294945024 (0xFFFFA900)
YUV	175.4480, -86.4959, 69.7671
Hunter-Lab	70.4528, 17.1277, 43.7136

# Details

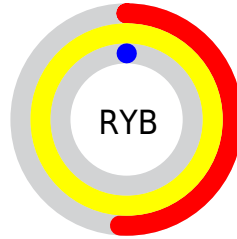
The Yxy color **49.6359, 0.4961, 0.4443** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **13.8687, 0.1627, 0.1056**, and the grayscale version is **43.5329, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.1505, 0.4256, 0.4612**, and **23.9290, 0.5094, 0.4338** is the 20% darker color. If you saturate the color by 10%, you get **49.6385, 0.4961, 0.4443**, and if you desaturate by 10%, it is **53.0158, 0.4834, 0.4476**.

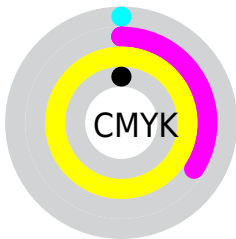
# Distribution



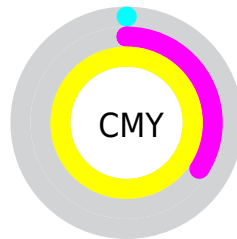
- Red (100%)
- Green (66%)
- Blue (0%)



- Red (51%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (34%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (34%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6359, 0.4961, 0.4443 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 49.6359, 0.4961, 0.4443 by changing the saturation by 10% instead.





 49.6359, 0.4961,  
0.4443


 49.6359, 0.4961,  
0.4443


385.2404, 0.4154,  
0.4025


 35.1242, 0.5107,  
0.4487


 89.6352, 0.4707,  
0.4336


 23.7585, 0.5262,  
0.4513


 115.8915, 0.4599,  
0.4282


 15.1546, 0.5462,  
0.4538


 146.8315, 0.4503,  
0.4231

 8.9280, 0.5570,  
0.4430

 182.8396, 0.4418,  
0.4183

 4.6942, 0.5725,  
0.4275

 224.3001, 0.4341,  
0.4139

 2.0690, 0.5968,  
0.4032

 271.5975, 0.4272,

 0.6471, 0.6471,

0.4098

0.3529

325.1161, 0.4210,  
0.4060

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 49.6359, 0.4961,  
0.4443

■ 49.6359, 0.4961,  
0.4443

■ 49.6385, 0.4961,  
0.4443

■ 53.0158, 0.4834,  
0.4476

■ 56.7015, 0.4677,  
0.4462

■ 60.7284, 0.4490,  
0.4396

■ 65.1177, 0.4284,  
0.4287

69.8879, 0.4070,  
0.4144

75.0554, 0.3857,  
0.3980

80.6351, 0.3652,  
0.3806

86.6411, 0.3461,  
0.3629

93.0863, 0.3286,  
0.3455

# Harmonies

## Analogous

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



49.6359, 0.5298, 0.3682



49.6359, 0.4961, 0.4443



49.6359, 0.4163, 0.5153

# Triad

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



49.6359, 0.4961, 0.4443



49.6359, 0.1580, 0.3266



49.6359, 0.2735, 0.1910

# Complementary

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



49.6359, 0.4961, 0.4443



13.8687, 0.1627, 0.1056

# 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.



49.6359, 0.1907, 0.1720



49.6359, 0.4961, 0.4443



49.6359, 0.1346, 0.2292

# Square

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



49.6359, 0.4961, 0.4443



49.6359, 0.2222, 0.4582



49.6359, 0.1459, 0.1820



49.6359, 0.3873, 0.2353



# Rectangle

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



49.6359, 0.4961, 0.4443



49.6359, 0.3511, 0.5393



49.6359, 0.1459, 0.1820



49.6359, 0.2416, 0.1817

# Sweetspot

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



49.6385, 0.4961, 0.4443



80.6487, 0.3652, 0.3806



21.9818, 0.5626, 0.2873



16.7476, 0.3737, 0.3880



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.



49.6385, 0.4961, 0.4443



49.6468, 0.4961, 0.4443



86.2189, 0.3926, 0.5265



19.9985, 0.3278, 0.3447



26.2287, 0.4945, 0.4456



2.7559, 0.4837, 0.4541



# Inverse Universe

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



13.8687, 0.1627, 0.1056



13.8709, 0.1627, 0.1056



7.6356, 0.1551, 0.0628



18.3785, 0.2979, 0.3128



7.4936, 0.1635, 0.1085



0.9219, 0.1697, 0.1309



# Previews

## White Background



This preview shows how the Yxy color 49.6359, 0.4961, 0.4443 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 49.6359, 0.4961, 0.4443 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 49.6359, 0.4961, 0.4443**

## Background



This preview shows how black text looks on a background with the Yxy color 49.6359, 0.4961, 0.4443.



This preview shows how white text looks on a background with the Yxy color 49.6359, 0.4961, 0.4443.

# 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

49.6359, 0.4961, 0.4443

### Protanopia

49.8558, 0.4381, 0.4860

### Deuteranopia

49.8453, 0.4724, 0.4631



## Tritanopia

49.6900, 0.3934, 0.3187

# Trichromacy



## Original Color

49.6359, 0.4961, 0.4443

## Protanomaly

49.4028, 0.4598, 0.4706

## Deuteranomaly

49.8930, 0.4812, 0.4561

## Tritanomaly

48.9150, 0.4507, 0.3849

# Monochromacy



## Original Color

49.6359, 0.4961, 0.4443

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

43.8722, 0.3961, 0.4068

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6359, 0.4961, 0.4443 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, 169, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 169, 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, 169, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 169, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6359, 0.4961, 0.4443 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, 169, 0) }
```

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

```
.border{ border-color:rgb(255, 169, 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, 169, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 169, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 169, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 169,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6359, 0.4961, 0.4443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 169, 0) }
```

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

```
.background{ background-color: rgb(255,  
169, 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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