

# Converting Colors

$Y_{xy}(49.6529, 0.3406, 0.2539)$

Have a look what the booklet for  
Yxy(49.6529, 0.3406, 0.2539)  
contains.

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# Color

**Yxy(49.6439, 0.3404, 0.2536)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF99E4
RGB	255, 153, 228
RGB Percent	100%, 60%, 89%
CMY	0.0000, 0.4000, 0.1058
CMYK	0.00, 0.40, 0.11, 0.00
HSL	316°, 100%, 80%
HSV	316°, 40%, 100%
XYZ	66.6356, 49.6439, 79.4772
YIQ	192.0480, 36.7170, 44.9490

# Conversions

## Conversions Part 2

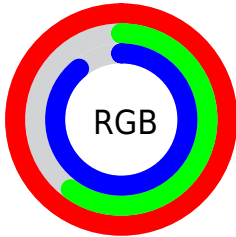
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 153, 228
Decimal	16751076
CIE Lab	75.85, 48.27, -21.71
CIE LCh	76, 52.933, 335.781
Yxy	49.6439, 0.3404, 0.2536
Android (android.graphics.Color)	4294941156 (0xFFFF99E4)
YUV	192.0480, 17.7243, 55.2089
Hunter-Lab	70.4584, 45.5129, -17.5583

# Details

The Yxy color **49.6439, 0.3404, 0.2536** is a light color, and the websafe version is hex **FF99CC**. A complement of this color would be **81.5873, 0.2936, 0.4192**, and the grayscale version is **52.6221, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.0809, 0.3148, 0.2841**, and **23.7726, 0.3477, 0.2366** is the 20% darker color. If you saturate the color by 10%, you get **41.8041, 0.3498, 0.2359**, and if you desaturate by 10%, it is **59.2863, 0.3320, 0.2725**.

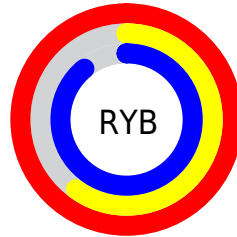
# Distribution



Red (100%)

Green (60%)

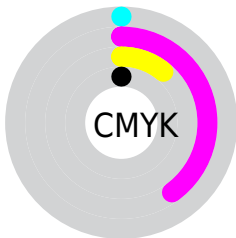
Blue (89%)



Red (100%)

Yellow (60%)

Blue (89%)

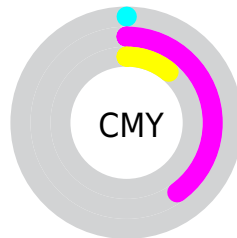


Cyan (0%)

Magenta (40%)

Yellow (11%)

Black (0%)



Cyan (0%)

Magenta (40%)


Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.6439, 0.3404, 0.2536 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 49.6439, 0.3404, 0.2536 by changing the saturation by 10% instead.





 49.6439, 0.3404,  
0.2536

 49.6439, 0.3404,  
0.2536


385.2717, 0.3279,  
0.2883

 35.1305, 0.3432,  
0.2457


 89.6470, 0.3361,  
0.2656

 23.7634, 0.3466,  
0.2361


 115.9056, 0.3344,  
0.2703

 15.1582, 0.3507,  
0.2240


146.8480, 0.3330,  
0.2743

 8.9305, 0.3561,  
0.2084

182.8587, 0.3317,  
0.2778

 4.6959, 0.3630,  
0.1875

224.3220, 0.3306,  
0.2809

 2.0700, 0.3722,  
0.1586

271.6223, 0.3296,

 0.6476, 0.3859,

0.2837

325.1441, 0.3287,  
0.2861

0.1137

0.0000, 0.4213,  
0.0000

0.0000, 0.0000,  
0.0000

49.6439, 0.3404,  
0.2536

49.6439, 0.3404,  
0.2536

41.8041, 0.3498,  
0.2359

59.2863, 0.3320,  
0.2725

35.6452, 0.3601,  
0.2206

70.8292, 0.3246,  
0.2918

31.0415, 0.3709,  
0.2085

84.3715, 0.3182,  
0.3108

27.8462, 0.3820,  
0.2008

99.9999, 0.3127,  
0.3290

■ 25.8844, 0.3929,  
0.1980

■ 24.8706, 0.4034,  
0.1996

■ 24.8704, 0.4034,  
0.1996

# Harmonies

## Analogous

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



49.6439, 0.2690, 0.2258



49.6439, 0.3404, 0.2536



49.6439, 0.4108, 0.2972

# Triad

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



49.6439, 0.3404, 0.2536



49.6439, 0.4081, 0.4472



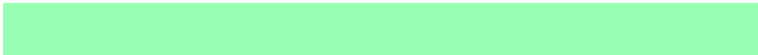
49.6439, 0.1906, 0.2830

# Complementary

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



49.6439, 0.3404, 0.2536



81.5873, 0.2936, 0.4192

# 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.



49.6439, 0.2195, 0.3544



49.6439, 0.3404, 0.2536



49.6439, 0.3437, 0.4617

# Square

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



49.6439, 0.3404, 0.2536



49.6439, 0.4496, 0.4030



49.6439, 0.2746, 0.4268



49.6439, 0.1901, 0.2369



# Rectangle

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



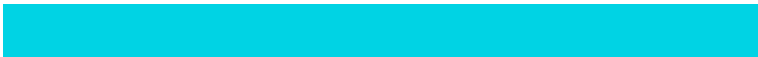
49.6439, 0.3404, 0.2536



49.6439, 0.4432, 0.3315



49.6439, 0.2746, 0.4268



49.6439, 0.1970, 0.3046

# Sweetspot

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



49.6462, 0.3404, 0.2536



81.4960, 0.3194, 0.3070



39.5288, 0.2560, 0.2112



17.0515, 0.3202, 0.3045



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.



49.6462, 0.3404, 0.2536



43.2326, 0.3479, 0.2393



47.2787, 0.3885, 0.3025



18.2135, 0.3179, 0.3117



13.0214, 0.4018, 0.1987



1.2859, 0.3904, 0.1924



# Inverse Universe

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



49.6462, 0.3404, 0.2536



43.2326, 0.3479, 0.2393



83.9775, 0.2692, 0.3582



18.2135, 0.3179, 0.3117



13.0214, 0.4018, 0.1987



1.2859, 0.3904, 0.1924



# Previews

## White Background



This preview shows how the Yxy color 49.6439, 0.3404, 0.2536 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

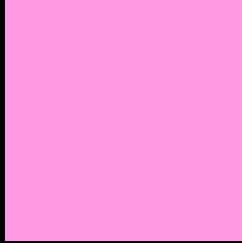
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.6439, 0.3404, 0.2536 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

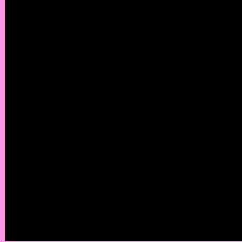
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.6439, 0.3404, 0.2536**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.6439, 0.3404, 0.2536.



This preview shows how white text looks on a background with the Yxy color 49.6439, 0.3404, 0.2536.

# 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**

49.6439, 0.3404, 0.2536

**Protanopia**

50.0980, 0.2563, 0.2512

**Deuteranopia**

49.8861, 0.2871, 0.2808



## Tritanopia

49.4687, 0.3823, 0.3152

# Trichromacy



## Original Color

49.6439, 0.3404, 0.2536



## Protanomaly

48.6376, 0.2819, 0.2496



## Deuteranomaly

48.9383, 0.3046, 0.2686



## Tritanomaly

49.2456, 0.3667, 0.2911

# Monochromacy



## Original Color

49.6439, 0.3404, 0.2536



## Achromatopsia

52.7115, 0.3127, 0.3290



## Achromatomaly

50.6956, 0.3227, 0.2977

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.6439, 0.3404, 0.2536 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, 153, 228)` looks like.

```
.text, #text, p{  
    color:rgb(255, 153, 228)  
}
```

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, 153, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 153, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 49.6439, 0.3404, 0.2536 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, 153, 228) }
```

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

```
.border{ border-color:rgb(255, 153, 228) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(255, 153, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 153, 228); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 153, 228); box-shadow:4px 4px 4px 4px rgb(255, 153, 228) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.6439, 0.3404, 0.2536 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 153, 228) }
```

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

```
.background{ background-color: rgb(255,  
153, 228) }
```

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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