

# Converting Colors

$Y_{xy}(49.8192, 0.3376, 0.2508)$

Have a look what the booklet for  
Yxy(49.8192, 0.3376, 0.2508)  
contains.

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# Color

**Yxy(49.8120, 0.3377, 0.2509)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF99E7
RGB	255, 153, 231
RGB Percent	100%, 60%, 91%
CMY	0.0001, 0.3999, 0.0941
CMYK	0.00, 0.40, 0.09, 0.00
HSL	314°, 100%, 80%
HSV	314°, 40%, 100%
XYZ	67.0447, 49.8120, 81.6766
YIQ	192.3900, 35.7540, 45.8820

# Conversions

## Conversions Part 2

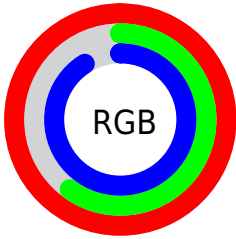
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 153, 231
Decimal	16751079
CIE Lab	75.95, 48.74, -23.18
CIE LCh	76, 53.968, 334.561
Yxy	49.8120, 0.3377, 0.2509
Android (android.graphics.Color)	4294941159 (0xFFFF99E7)
YUV	192.3900, 19.0347, 54.9090
Hunter-Lab	70.5776, 46.0539, -19.2096

# Details

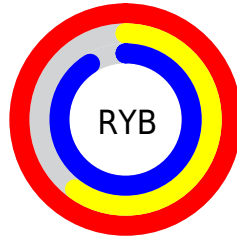
The Yxy color  $49.8120, 0.3377, 0.2509$  is a light color, and the websafe version is hex  $\text{FF99FF}$ . A complement of this color would be  $81.4479, 0.2951, 0.4229$ , and the grayscale version is  $52.8255, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $74.0809, 0.3148, 0.2841$ , and  $23.8891, 0.3439, 0.2332$  is the 20% darker color. If you saturate the color by 10%, you get  $42.0060, 0.3461, 0.2327$ , and if you desaturate by 10%, it is  $59.4173, 0.3301, 0.2704$ .

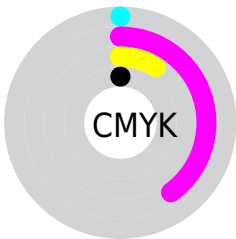
# Distribution



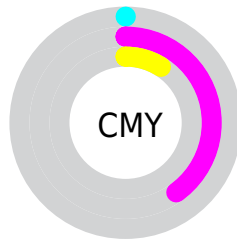
- Red (100%)
- Green (60%)
- Blue (91%)



- Red (100%)
- Yellow (60%)
- Blue (91%)



- Cyan (0%)
- Magenta (40%)
- Yellow (9%)
- Black (0%)




- Cyan (0%)
- Magenta (40%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.8120, 0.3377, 0.2509 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 49.8120, 0.3377, 0.2509 by changing the saturation by 10% instead.




 49.8120, 0.3377,  
0.2509


 49.8120, 0.3377,  
0.2509


385.9303, 0.3266,  
0.2867

 35.2640, 0.3401,  
0.2428


 89.8963, 0.3339,  
0.2633

 23.8663, 0.3430,  
0.2329


 116.2014, 0.3324,  
0.2681

 15.2345, 0.3466,  
0.2205


147.1943, 0.3311,  
0.2723

 8.9841, 0.3511,  
0.2046

183.2595, 0.3300,  
0.2759

 4.7308, 0.3567,  
0.1834

224.7812, 0.3290,  
0.2791

 2.0902, 0.3639,  
0.1543

272.1440, 0.3281,

 0.6591, 0.3738,

0.2819

0.1100

325.7323, 0.3273,  
0.2845

■ 0.0000, 0.4006,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 49.8120, 0.3377,  
0.2509

■ 49.8120, 0.3377,  
0.2509

■ 42.0060, 0.3461,  
0.2327

■ 59.4173, 0.3301,  
0.2704

■ 35.8776, 0.3551,  
0.2168

■ 70.9195, 0.3235,  
0.2904

■ 31.3013, 0.3646,  
0.2043

■ 84.4175, 0.3177,  
0.3101

■ 28.1303, 0.3742,  
0.1961

99.9922, 0.3127,  
0.3290

■ 26.1900, 0.3836, 99.9936, 0.3127,  
0.1927 0.3290

■ 25.1955, 0.3927,  
0.1937

■ 25.1940, 0.3927,  
0.1937

# Harmonies

## Analogous

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



49.8120, 0.2656, 0.2235



49.8120, 0.3377, 0.2509



49.8120, 0.4101, 0.2945

# Triad

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



49.8120, 0.3377, 0.2509



49.8120, 0.4118, 0.4476



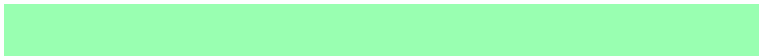
49.8120, 0.1893, 0.2845

# Complementary

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



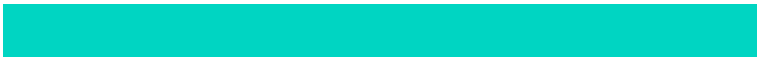
49.8120, 0.3377, 0.2509



81.4479, 0.2951, 0.4229

# 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.



49.8120, 0.2197, 0.3580



49.8120, 0.3377, 0.2509



49.8120, 0.3469, 0.4645

# Square

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



49.8120, 0.3377, 0.2509



49.8120, 0.4529, 0.4018



49.8120, 0.2765, 0.4312



49.8120, 0.1877, 0.2366



# Rectangle

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



49.8120, 0.3377, 0.2509



49.8120, 0.4441, 0.3292



49.8120, 0.2765, 0.4312



49.8120, 0.1962, 0.3069

# Sweetspot

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



49.8143, 0.3377, 0.2509



81.5517, 0.3188, 0.3061



39.3346, 0.2548, 0.2109



17.0646, 0.3195, 0.3036



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.



49.8143, 0.3377, 0.2509



43.4285, 0.3444, 0.2361



47.3491, 0.3867, 0.3007



18.2230, 0.3174, 0.3110



13.1926, 0.3912, 0.1929



1.3013, 0.3815, 0.1875



# Inverse Universe

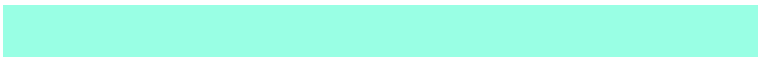
The Inverse Universe completely reimagines the original color for something new.



49.8143, 0.3377, 0.2509



43.4285, 0.3444, 0.2361



83.8630, 0.2700, 0.3602



18.2230, 0.3174, 0.3110



13.1926, 0.3912, 0.1929

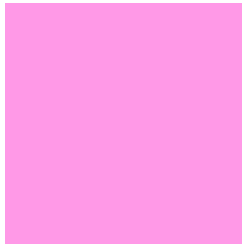


1.3013, 0.3815, 0.1875



# Previews

## White Background



This preview shows how the Yxy color 49.8120, 0.3377, 0.2509 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

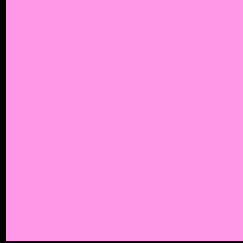
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.8120, 0.3377, 0.2509 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

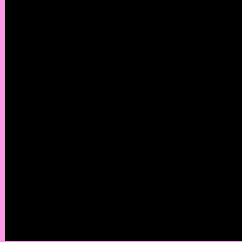
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.8120, 0.3377, 0.2509**

## Background



This preview shows how black text looks on a background with the Yxy color 49.8120, 0.3377, 0.2509.

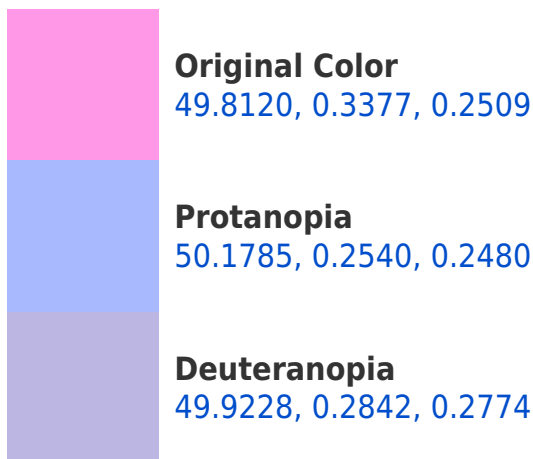


This preview shows how white text looks on a background with the Yxy color 49.8120, 0.3377, 0.2509.

# 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





## Tritanopia

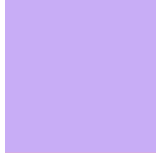
49.8252, 0.3820, 0.3163

# Trichromacy



## Original Color

49.8120, 0.3377, 0.2509



## Protanomaly

48.8203, 0.2799, 0.2467



## Deuteranomaly

49.1035, 0.3023, 0.2655



## Tritanomaly

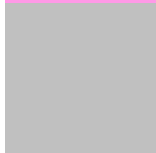
49.6364, 0.3656, 0.2912

# Monochromacy



## Original Color

49.8120, 0.3377, 0.2509



## Achromatopsia

52.7115, 0.3127, 0.3290



## Achromatomaly

50.7441, 0.3219, 0.2966

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.8120, 0.3377, 0.2509 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, 231)` looks like.

```
.text, #text, p{  
    color:rgb(255, 153, 231)  
}
```

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, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 153, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 49.8120, 0.3377, 0.2509 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, 231) }
```

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

```
.border{ border-color:rgb(255, 153, 231) }
```

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, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 153, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 153, 231);  
box-shadow:4px 4px 4px 4px rgb(255, 153,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.8120, 0.3377, 0.2509 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, 231) }
```

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

```
.background{ background-color: rgb(255,  
153, 231) }
```

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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