

# Converting Colors

$Y_{xy}(67.2433, 0.3207, 0.2006)$

Have a look what the booklet for  
Yxy(67.2433, 0.3207, 0.2006)  
contains.

<b>Yxy(49.0378, 0.3176, 0.2239)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(49.0378, 0.3176, 0.2239)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF92FF
RGB	255, 146, 255
RGB Percent	100%, 57%, 100%
CMY	0.0002, 0.4273, 0.0000
CMYK	0.00, 0.43, 0.00, 0.00
HSL	300°, 100%, 79%
HSV	300°, 43%, 100%
XYZ	69.5596, 49.0378, 100.4191
YIQ	191.0170, 29.9750, 57.0070

# Conversions

## Conversions Part 2

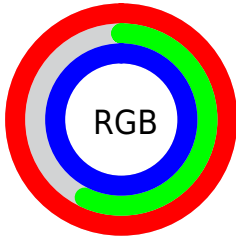
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	255, 146, 255
Decimal	16749311
CIE <sub>Lab</sub>	75.47, 56.30, -36.96
CIE <sub>LCh</sub>	75, 67.346, 326.713
Yxy	49.0378, 0.3176, 0.2239
Android (android.graphics.Color)	4294939391 (0xFFFF92FF)
YUV	191.0170, 31.5436, 56.1131
Hunter-Lab	70.0270, 54.7615, -36.0033

# Details

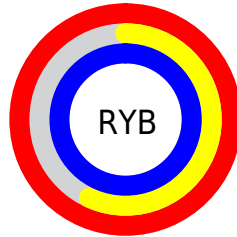
The Yxy color **49.0378, 0.3176, 0.2239** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **79.7133, 0.3065, 0.4625**, and the grayscale version is **51.9136, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.7211, 0.3151, 0.2772**, and **23.2952, 0.3164, 0.2009** is the 20% darker color. If you saturate the color by 10%, you get **42.0312, 0.3186, 0.2027**, and if you desaturate by 10%, it is **57.8000, 0.3165, 0.2474**.

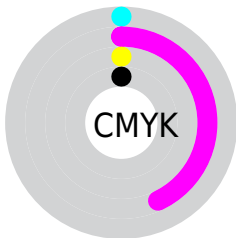
# Distribution



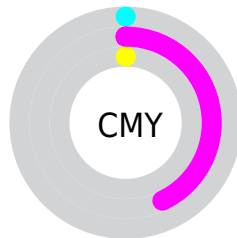
- Red (100%)
- Green (57%)
- Blue (100%)



- Red (100%)
- Yellow (57%)
- Blue (100%)



- Cyan (0%)
- Magenta (43%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (43%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.0378, 0.3176, 0.2239 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 49.0378, 0.3176, 0.2239 by changing the saturation by 10% instead.




 49.0378, 0.3176,  
0.2239


 49.0378, 0.3176,  
0.2239

382.8911, 0.3170,  
0.2708

 34.6495, 0.3173,  
0.2137


 88.7476, 0.3177,  
0.2398

 23.3930, 0.3168,  
0.2014


 114.8378, 0.3177,  
0.2460

 14.8840, 0.3157,  
0.1864


145.5975, 0.3176,  
0.2515

 8.7380, 0.3139,  
0.1676

181.4110, 0.3175,  
0.2563

 4.5707, 0.3104,  
0.1437

222.6627, 0.3174,  
0.2606

 1.9976, 0.3037,  
0.1128

269.7371, 0.3173,

 0.6061, 0.2907,

0.2643

0.0703

323.0184, 0.3172,  
0.2677

0.0000, 0.2656,  
0.0000

0.0000, 0.0000,  
0.0000

49.0378, 0.3176,  
0.2239

49.0378, 0.3176,  
0.2239

42.0312, 0.3186,  
0.2027

57.8000, 0.3165,  
0.2474

36.6586, 0.3194,  
0.1848

68.4213, 0.3154,  
0.2723

32.7889, 0.3201,  
0.1709

81.0013, 0.3142,  
0.2975

30.2691, 0.3205,  
0.1613

95.6315, 0.3130,  
0.3224

■ 28.9138, 0.3208,  
0.1559

100.0000, 0.3127,  
0.3290

■ 28.4627, 0.3208,  
0.1541

# Harmonies

## Analogous

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



49.0378, 0.2346, 0.1977



49.0378, 0.3176, 0.2239



49.0378, 0.4125, 0.2706

# Triad

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



49.0378, 0.3176, 0.2239



49.0378, 0.4481, 0.4578



49.0378, 0.1690, 0.2922

# Complementary

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



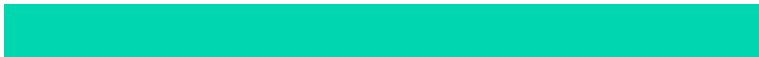
49.0378, 0.3176, 0.2239



79.7133, 0.3065, 0.4625

# 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.



49.0378, 0.2125, 0.3917



49.0378, 0.3176, 0.2239



49.0378, 0.3729, 0.4986

# Square

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



49.0378, 0.3176, 0.2239



49.0378, 0.4909, 0.3948



49.0378, 0.2868, 0.4791



49.0378, 0.1598, 0.2258



# Rectangle

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



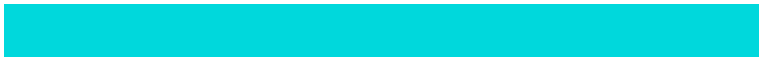
49.0378, 0.3176, 0.2239



49.0378, 0.4633, 0.3094



49.0378, 0.2868, 0.4791



49.0378, 0.1796, 0.3229

# Sweetspot

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



49.0390, 0.3176, 0.2239



80.6406, 0.3142, 0.2968



34.4645, 0.2325, 0.1980



16.6316, 0.3145, 0.2913



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.



49.0390, 0.3176, 0.2239



43.1257, 0.3184, 0.2062



46.1063, 0.3659, 0.2712



18.3001, 0.3138, 0.3056



14.8725, 0.3208, 0.1541



1.4482, 0.3208, 0.1541



# Inverse Universe

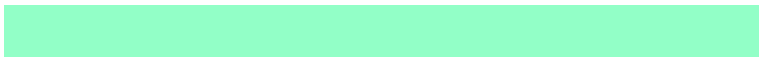
The Inverse Universe completely reimagines the original color for something new.



43.9038, 0.4254, 0.3293



37.3952, 0.4604, 0.3294



81.7431, 0.2807, 0.3964



17.9872, 0.3295, 0.3290



11.1090, 0.6400, 0.3300



1.0817, 0.6399, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 49.0378, 0.3176, 0.2239 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

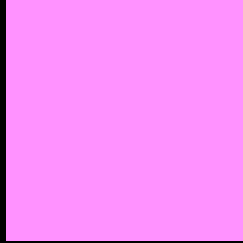
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.0378, 0.3176, 0.2239 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

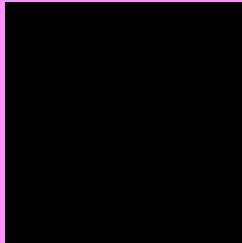
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.0378, 0.3176, 0.2239**

## Background



This preview shows how black text looks on a background with the Yxy color 49.0378, 0.3176, 0.2239.



This preview shows how white text looks on a background with the Yxy color 49.0378, 0.3176, 0.2239.

# 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

49.0378, 0.3176, 0.2239

### Protanopia

49.3935, 0.2508, 0.2453

### Deuteranopia

49.1903, 0.2584, 0.2519



## Tritanopia

49.0980, 0.3784, 0.3161

# Trichromacy



## Original Color

49.0378, 0.3176, 0.2239



## Protanomaly

47.8398, 0.2715, 0.2343



## Deuteranomaly

48.1320, 0.2771, 0.2387



## Tritanomaly

48.6615, 0.3558, 0.2786

# Monochromacy



## Original Color

49.0378, 0.3176, 0.2239



## Achromatopsia

52.0996, 0.3127, 0.3290



## Achromatomaly

49.8111, 0.3148, 0.2841

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.0378, 0.3176, 0.2239 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, 146, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 146, 255)  
}
```

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, 146, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 146, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 49.0378, 0.3176, 0.2239 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, 146, 255) }
```

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

```
.border{ border-color:rgb(255, 146, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 146, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 146, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 146, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 146,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.0378, 0.3176, 0.2239 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 146, 255) }
```

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

```
.background{ background-color: rgb(255,  
146, 255) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor