

# Converting Colors

$Y_{xy}(90.0313, 0.3575, 0.2715)$

Have a look what the booklet for  
Yxy(90.0313, 0.3575, 0.2715)  
contains.

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# Color

**Yxy(70.7211, 0.3151, 0.2772)**

# Conversions

## Conversions Part 1

| Format      | Color                      |
|-------------|----------------------------|
| Hex         | FFCAFF                     |
| RGB         | 255, 202, 255              |
| RGB Percent | 100%, 79%, 100%            |
| CMY         | 0.0003, 0.2077, 0.0000     |
| CMYK        | 0.00, 0.21, 0.00, 0.00     |
| HSL         | 300°, 100%, 90%            |
| HSV         | 300°, 21%, 100%            |
| XYZ         | 80.3904, 70.7211, 104.0151 |
| YIQ         | 223.8890, 14.5750, 27.7190 |

# Conversions

## Conversions Part 2

| Format                              | Color                         |
|-------------------------------------|-------------------------------|
| R <sub>Y</sub> B                    | 255, 202, 255                 |
| Decimal                             | 16763647                      |
| CIE Lab                             | 87.35, 27.38, -18.79          |
| CIE LCh                             | 87, 33.205, 325.547           |
| Yxy                                 | 70.7211, 0.3151,<br>0.2772    |
| Android<br>(android.graphics.Color) | 4294953727<br>(0xFFFFCAFF)    |
| YUV                                 | 223.8890, 15.3377,<br>27.2843 |
| Hunter-Lab                          | 84.0958, 23.4672,<br>-14.4666 |

# Details

The Yxy color  $70.7211, 0.3151, 0.2772$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $88.3523, 0.3100, 0.3869$ , and the grayscale version is  $74.3373, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $37.2628, 0.3156, 0.2669$  is the 20% darker color. If you saturate the color by 10%, you get  $59.7221, 0.3162, 0.2522$ , and if you desaturate by 10%, it is  $83.7034, 0.3139, 0.3024$ .

# Distribution



- Red (100%)
- Green (79%)
- Blue (100%)



- Red (100%)
- Yellow (79%)
- Blue (100%)



- Cyan (0%)
- Magenta (21%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (21%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.7211, 0.3151, 0.2772 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 70.7211, 0.3151, 0.2772 by changing the saturation by 10% instead.




 70.7211, 0.3151,  
0.2772

 70.7211, 0.3151,  
0.2772


463.0779, 0.3144,  
0.3002

 52.1146, 0.3152,  
0.2722

120.2365, 0.3149,  
0.2850

 37.0964, 0.3152,  
0.2660


151.9143, 0.3149,  
0.2881

 25.2822, 0.3152,  
0.2585


188.7179, 0.3148,  
0.2908

 16.2874, 0.3150,  
0.2488

231.0317, 0.3147,  
0.2931

 9.7278, 0.3146,  
0.2362

279.2403, 0.3146,  
0.2952

 5.2188, 0.3137,  
0.2190


333.7279, 0.3146,


 2.3762, 0.3116,


0.2971


0.1943


394.8790, 0.3145,  
0.2987

 0.8136, 0.3062,  
0.1561


 0.0000, 0.2815,  
0.0000


 70.7211, 0.3151,  
0.2772


 70.7211, 0.3151,  
0.2772


 59.7221, 0.3162,  
0.2522


 83.7034, 0.3139,  
0.3024

 50.6001, 0.3173,  
0.2284

 98.7501, 0.3128,  
0.3271

 43.2530, 0.3183,  
0.2066

 99.9996, 0.3127,  
0.3290

 37.5653, 0.3192,  
0.1880

■ 33.4077, 0.3198,  
0.1732

■ 30.6321, 0.3203,  
0.1627

■ 29.0610, 0.3205,  
0.1565

■ 28.4213, 0.3206,  
0.1540

# Harmonies

## Analogous

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



70.7211, 0.2764, 0.2645



70.7211, 0.3151, 0.2772



70.7211, 0.3555, 0.3016

# Triad

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



70.7211, 0.3151, 0.2772



70.7211, 0.3785, 0.3914



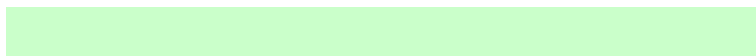
70.7211, 0.2453, 0.3180

# Complementary

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



70.7211, 0.3151, 0.2772



88.3523, 0.3100, 0.3869

# 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.



70.7211, 0.2696, 0.3576



70.7211, 0.3151, 0.2772



70.7211, 0.3463, 0.4018

# Square

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



70.7211, 0.3151, 0.2772



70.7211, 0.3932, 0.3655



70.7211, 0.3063, 0.3898



70.7211, 0.2382, 0.2851



# Rectangle

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



70.7211, 0.3151, 0.2772



70.7211, 0.3770, 0.3222



70.7211, 0.3063, 0.3898



70.7211, 0.2516, 0.3311

# Sweetspot

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



70.7242, 0.3151, 0.2772



90.6202, 0.3134, 0.3143



62.4542, 0.2778, 0.2721



19.1878, 0.3135, 0.3127



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.



70.7242, 0.3151, 0.2772



65.8364, 0.3156, 0.2666



69.1958, 0.3336, 0.3015



18.2993, 0.3138, 0.3056



14.8520, 0.3206, 0.1540



1.4464, 0.3207, 0.1540



# Inverse Universe

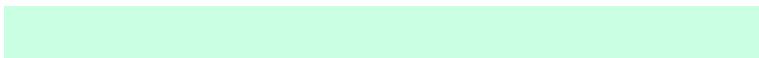
The Inverse Universe completely reimagines the original color for something new.



67.7854, 0.3546, 0.3291



62.4067, 0.3658, 0.3291



89.6586, 0.2960, 0.3582



17.9874, 0.3294, 0.3290



11.1093, 0.6400, 0.3299



1.0818, 0.6397, 0.3297



# Previews

## White Background



This preview shows how the Yxy color 70.7211, 0.3151, 0.2772 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

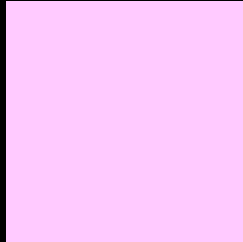
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.7211, 0.3151, 0.2772 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

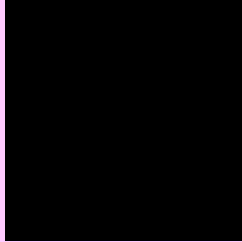
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.7211, 0.3151, 0.2772**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.7211, 0.3151, 0.2772.



This preview shows how white text looks on a background with the Yxy color 70.7211, 0.3151, 0.2772.

# 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

70.7211, 0.3151, 0.2772

### Protanopia

71.2117, 0.2847, 0.2896

### Deuteranopia

71.0323, 0.2943, 0.2883



## Tritanopia

71.0028, 0.3339, 0.3127

# Trichromacy



## Original Color

70.7211, 0.3151, 0.2772



## Protanomaly

70.6379, 0.2951, 0.2845



## Deuteranomaly

70.9111, 0.3013, 0.2841



## Tritanomaly

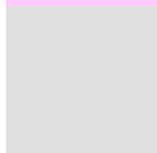
70.8362, 0.3268, 0.2998

# Monochromacy



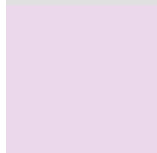
## Original Color

70.7211, 0.3151, 0.2772



## Achromatopsia

74.5404, 0.3127, 0.3290



## Achromatomaly

72.7721, 0.3136, 0.3092

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.7211, 0.3151, 0.2772 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, 202, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 202, 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, 202, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 202, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 70.7211, 0.3151, 0.2772 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, 202, 255) }
```

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

```
.border{ border-color:rgb(255, 202, 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, 202, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 202, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 202, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 202,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.7211, 0.3151, 0.2772 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 202, 255) }
```

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

```
.background{ background-color: rgb(255,  
202, 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](#).

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