

# Converting Colors

$Y_{xy}(73.8147, 0.2667, 0.2171)$

Have a look what the booklet for  
Yxy(73.8147, 0.2667, 0.2171)  
contains.

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# Color

**Yxy(68.3027, 0.3094, 0.2742)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F7C8FF
RGB	247, 200, 255
RGB Percent	97%, 78%, 100%
CMY	0.0312, 0.2157, 0.0000
CMYK	0.03, 0.22, 0.00, 0.00
HSL	291°, 100%, 89%
HSV	291°, 22%, 100%
XYZ	77.0710, 68.3027, 103.7245
YIQ	220.3230, 10.3570, 27.0690

# Conversions

## Conversions Part 2

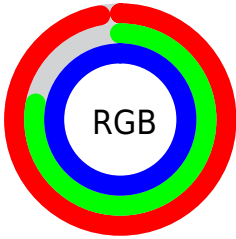
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	247, 200, 255
Decimal	16238847
CIE Lab	86.16, 25.92, -20.66
CIE LCh	86, 33.142, 321.445
Yxy	68.3027, 0.3094, 0.2742
Android (android.graphics.Color)	4294428927 (0xFFFF7C8FF)
YUV	220.3230, 17.0958, 23.3957
Hunter-Lab	82.6454, 21.8305, -16.5603

# Details

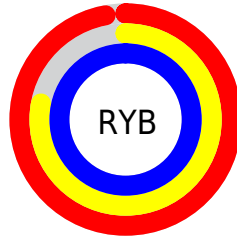
The Yxy color  $68.3027, 0.3094, 0.2742$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $89.0892, 0.3148, 0.3885$ , and the grayscale version is  $71.6841, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $35.5821, 0.3081, 0.2628$  is the 20% darker color. If you saturate the color by 10%, you get  $56.7994, 0.3072, 0.2480$ , and if you desaturate by 10%, it is  $81.7948, 0.3112, 0.3002$ .

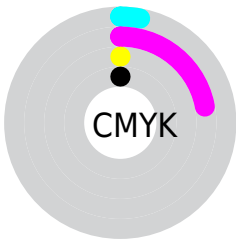
# Distribution



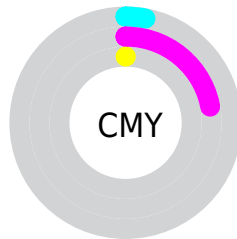
- Red (97%)
- Green (78%)
- Blue (100%)



- Red (97%)
- Yellow (78%)
- Blue (100%)



- Cyan (3%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)




- Cyan (3%)
- Magenta (22%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.3027, 0.3094, 0.2742 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 68.3027, 0.3094, 0.2742 by changing the saturation by 10% instead.




 68.3027, 0.3094,  
0.2742

 68.3027, 0.3094,  
0.2742


454.5678, 0.3114,  
0.2987

 50.1440, 0.3088,  
0.2688


116.7851, 0.3102,  
0.2825

 35.5279, 0.3081,  
0.2623


147.8776, 0.3104,  
0.2858

 24.0698, 0.3071,  
0.2542


184.0501, 0.3107,  
0.2887

 15.3854, 0.3057,  
0.2438

225.6872, 0.3109,  
0.2912

 9.0903, 0.3036,  
0.2302

273.1730, 0.3110,  
0.2934

 4.8001, 0.3002,  
0.2117


326.8922, 0.3112,


 2.1305, 0.2941,


0.2953


0.1850


387.2289, 0.3113,  
0.2971

 0.6817, 0.2825,  
0.1415


 0.0000, 0.1888,  
0.0000

 68.3027, 0.3094,  
0.2742


 68.3027, 0.3094,  
0.2742

 56.7994, 0.3072,  
0.2480


 81.7948, 0.3112,  
0.3002

 47.1783, 0.3046,  
0.2224

 97.3578, 0.3125,  
0.3252

 39.3365, 0.3017,  
0.1985

 99.9997, 0.3127,  
0.3290

 33.1573, 0.2983,  
0.1773

■ 28.5101, 0.2947,  
0.1598

■ 25.2449, 0.2909,  
0.1466

■ 23.1808, 0.2871,  
0.1380

■ 22.1419, 0.2839,  
0.1338

# Harmonies

## Analogous

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



68.3027, 0.2715, 0.2633



68.3027, 0.3094, 0.2742



68.3027, 0.3507, 0.2975

# Triad

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



68.3027, 0.3094, 0.2742



68.3027, 0.3824, 0.3891



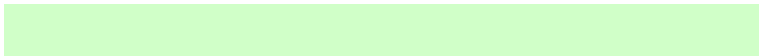
68.3027, 0.2471, 0.3232

# Complementary

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



68.3027, 0.3094, 0.2742



89.0892, 0.3148, 0.3885

# 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.



68.3027, 0.2737, 0.3632



68.3027, 0.3094, 0.2742



68.3027, 0.3517, 0.4024

# Square

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



68.3027, 0.3094, 0.2742



68.3027, 0.3943, 0.3615



68.3027, 0.3118, 0.3935



68.3027, 0.2374, 0.2885



# Rectangle

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



68.3027, 0.3094, 0.2742



68.3027, 0.3738, 0.3177



68.3027, 0.3118, 0.3935



68.3027, 0.2542, 0.3366

# Sweetspot

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



68.3056, 0.3094, 0.2742



90.2063, 0.3120, 0.3142



64.7279, 0.2769, 0.2779



19.0896, 0.3119, 0.3126



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.



68.3056, 0.3094, 0.2742



62.9724, 0.3085, 0.2626



68.6051, 0.3291, 0.2933



18.1594, 0.3115, 0.3054



11.6210, 0.2845, 0.1341



1.1663, 0.2889, 0.1365



# Inverse Universe

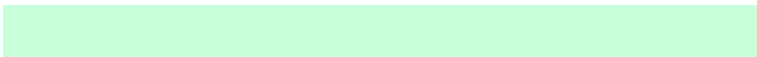
The Inverse Universe completely reimagines the original color for something new.



67.1154, 0.3504, 0.3209



61.6169, 0.3605, 0.3192



88.9225, 0.2993, 0.3677



18.0299, 0.3272, 0.3256



11.1911, 0.6209, 0.3194



1.1018, 0.5944, 0.3048



# Previews

## White Background



This preview shows how the Yxy color 68.3027, 0.3094, 0.2742 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

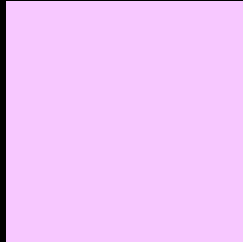
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.3027, 0.3094, 0.2742 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

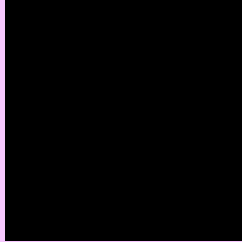
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.3027, 0.3094, 0.2742**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.3027, 0.3094, 0.2742.

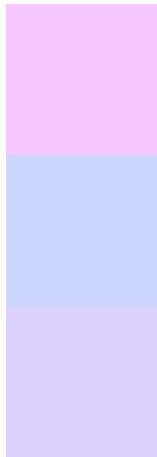


This preview shows how white text looks on a background with the Yxy color 68.3027, 0.3094, 0.2742.

# 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

68.3027, 0.3094, 0.2742

### Protanopia

68.5785, 0.2818, 0.2849

### Deuteranopia

68.7404, 0.2909, 0.2847



## Tritanopia

68.2938, 0.3287, 0.3123

# Trichromacy



## Original Color

68.3027, 0.3094, 0.2742



## Protanomaly

68.3505, 0.2916, 0.2808



## Deuteranomaly

68.4394, 0.2971, 0.2804



## Tritanomaly

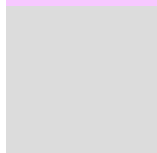
68.3593, 0.3217, 0.2982

# Monochromacy



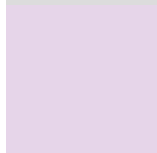
## Original Color

68.3027, 0.3094, 0.2742



## Achromatopsia

71.5694, 0.3127, 0.3290



## Achromatomaly

70.2947, 0.3115, 0.3079

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.3027, 0.3094, 0.2742 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(247, 200, 255)` looks like.

```
.text, #text, p{  
    color:rgb(247, 200, 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(247, 200, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 200, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.3027, 0.3094, 0.2742 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(247, 200, 255) }
```

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

```
.border{ border-color:rgb(247, 200, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 200, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 200, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 200, 255);  
box-shadow:4px 4px 4px 4px rgb(247, 200,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.3027, 0.3094, 0.2742 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 200, 255) }
```

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

```
.background{ background-color: rgb(247,  
200, 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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