

# Converting Colors

$Y_{xy}(84.1174, 0.2422, 0.1741)$

Have a look what the booklet for  
Yxy(84.1174, 0.2422, 0.1741)  
contains.

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# Color

**Yxy(68.4125, 0.3154, 0.2722)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFC5FF
RGB	255, 197, 255
RGB Percent	100%, 77%, 100%
CMY	0.0000, 0.2275, 0.0000
CMYK	0.00, 0.23, 0.00, 0.00
HSL	300°, 100%, 89%
HSV	300°, 23%, 100%
XYZ	79.2700, 68.4125, 103.6492
YIQ	220.9540, 15.9500, 30.3340

# Conversions

## Conversions Part 2

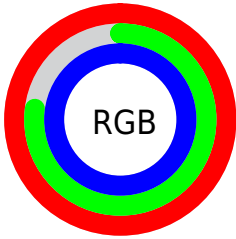
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 197, 255
Decimal	16762367
CIE Lab	86.21, 30.07, -20.51
CIE LCh	86, 36.405, 325.701
Yxy	68.4125, 0.3154, 0.2722
Android (android.graphics.Color)	4294952447 (0xFFFFC5FF)
YUV	220.9540, 16.7847, 29.8583
Hunter-Lab	82.7118, 26.3265, -16.4001

# Details

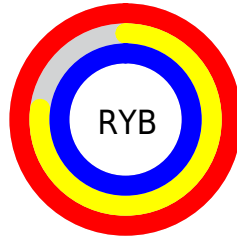
The Yxy color  $68.4125, 0.3154, 0.2722$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $87.4189, 0.3097, 0.3932$ , and the grayscale version is  $72.1369, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $99.3636, 0.3128, 0.3281$ , and  $35.7279, 0.3159, 0.2607$  is the 20% darker color. If you saturate the color by 10%, you get  $57.7896, 0.3165, 0.2474$ , and if you desaturate by 10%, it is  $80.9809, 0.3142, 0.2974$ .

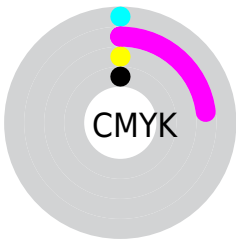
# Distribution



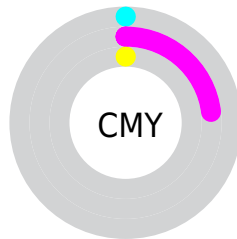
- Red (100%)
- Green (77%)
- Blue (100%)



- Red (100%)
- Yellow (77%)
- Blue (100%)



- Cyan (0%)
- Magenta (23%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (23%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.4125, 0.3154, 0.2722 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 68.4125, 0.3154, 0.2722 by changing the saturation by 10% instead.




 68.4125, 0.3154,  
0.2722

 68.4125, 0.3154,  
0.2722

454.9561, 0.3147,  
0.2975

 50.2334, 0.3155,  
0.2667


116.9421, 0.3152,  
0.2808

 35.5989, 0.3155,  
0.2599


148.0613, 0.3151,  
0.2842

 24.1246, 0.3154,  
0.2516


184.2627, 0.3151,  
0.2871

 15.4260, 0.3152,  
0.2411

225.9307, 0.3150,  
0.2897

 9.1189, 0.3147,  
0.2272

273.4496, 0.3149,  
0.2920

 4.8188, 0.3135,  
0.2084


327.2039, 0.3148,


 2.1414, 0.3108,


0.2940


0.1816

387.5780, 0.3147,  
0.2958


 0.6877, 0.3047,  
0.1384


 0.0000, 0.2555,  
0.0000

 68.4125, 0.3154,  
0.2722


 68.4125, 0.3154,  
0.2722

 57.7896, 0.3165,  
0.2474

 80.9809, 0.3142,  
0.2974

 49.0333, 0.3176,  
0.2239

 95.6059, 0.3130,  
0.3223

 42.0300, 0.3186,  
0.2027

100.0000, 0.3127,  
0.3290

 36.6618, 0.3195,  
0.1848

■ 32.7962, 0.3201,  
0.1709

■ 30.2803, 0.3206,  
0.1613

■ 28.9285, 0.3208,  
0.1560

■ 28.4800, 0.3209,  
0.1542

# Harmonies

## Analogous

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



68.4125, 0.2727, 0.2582



68.4125, 0.3154, 0.2722



68.4125, 0.3603, 0.2989

# Triad

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



68.4125, 0.3154, 0.2722



68.4125, 0.3853, 0.3979



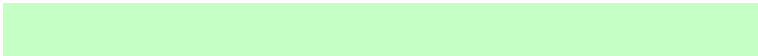
68.4125, 0.2383, 0.3163

# Complementary

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



68.4125, 0.3154, 0.2722



87.4189, 0.3097, 0.3932

# 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.



68.4125, 0.2648, 0.3606



68.4125, 0.3154, 0.2722



68.4125, 0.3493, 0.4100

# Square

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



68.4125, 0.3154, 0.2722



68.4125, 0.4019, 0.3689



68.4125, 0.3051, 0.3968



68.4125, 0.2307, 0.2801



# Rectangle

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



68.4125, 0.3154, 0.2722



68.4125, 0.3843, 0.3213



68.4125, 0.3051, 0.3968



68.4125, 0.2452, 0.3308

# Sweetspot

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



68.4060, 0.3154, 0.2722



89.1353, 0.3135, 0.3118



59.0143, 0.2739, 0.2648



18.8885, 0.3136, 0.3103



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.



68.4060, 0.3154, 0.2722



63.6610, 0.3159, 0.2616



66.6765, 0.3368, 0.2997



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

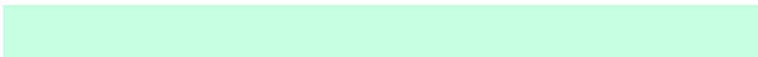
The Inverse Universe completely reimagines the original color for something new.



68.4060, 0.3154, 0.2722



63.6610, 0.3159, 0.2616



88.8790, 0.2940, 0.3603



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 68.4125, 0.3154, 0.2722 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

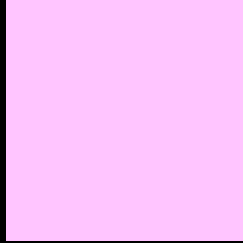
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.4125, 0.3154, 0.2722 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

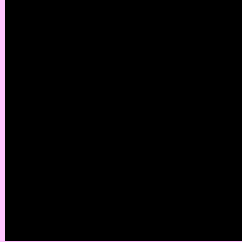
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.4125, 0.3154, 0.2722**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.4125, 0.3154, 0.2722.



This preview shows how white text looks on a background with the Yxy color 68.4125, 0.3154, 0.2722.

# 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

68.4125, 0.3154, 0.2722

### Protanopia

68.5785, 0.2818, 0.2849

### Deuteranopia

68.6769, 0.2915, 0.2857



## Tritanopia

68.1503, 0.3374, 0.3126

# Trichromacy



## Original Color

68.4125, 0.3154, 0.2722



## Protanomaly

68.1790, 0.2930, 0.2800



## Deuteranomaly

68.3903, 0.2998, 0.2806



## Tritanomaly

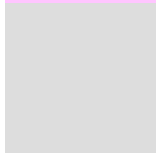
68.2949, 0.3295, 0.2977

# Monochromacy



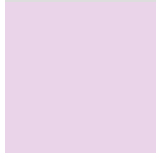
## Original Color

68.4125, 0.3154, 0.2722



## Achromatopsia

72.3055, 0.3127, 0.3290



## Achromatomaly

70.2938, 0.3138, 0.3069

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.4125, 0.3154, 0.2722 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, 197, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 197, 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, 197, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 197, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.4125, 0.3154, 0.2722 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, 197, 255) }
```

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

```
.border{ border-color:rgb(255, 197, 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, 197, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 197, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 197, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 197,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.4125, 0.3154, 0.2722 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 197, 255) }
```

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

```
.background{ background-color: rgb(255,  
197, 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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