

# Converting Colors

$Y_{xy}(89.9230, 0.3136, 0.2251)$

Have a look what the booklet for  
Yxy(89.9230, 0.3136, 0.2251)  
contains.

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# Color

**Yxy(67.9599, 0.3154, 0.2712)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFC4FF
RGB	255, 196, 255
RGB Percent	100%, 77%, 100%
CMY	0.0000, 0.2314, 0.0000
CMYK	0.00, 0.23, 0.00, 0.00
HSL	300°, 100%, 88%
HSV	300°, 23%, 100%
XYZ	79.0360, 67.9599, 103.5937
YIQ	220.3670, 16.2250, 30.8570

# Conversions

## Conversions Part 2

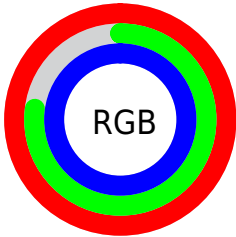
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 196, 255
Decimal	16762111
CIE <sub>Lab</sub>	85.99, 30.58, -20.87
CIE <sub>LCh</sub>	86, 37.026, 325.693
Yxy	67.9599, 0.3154, 0.2712
Android (android.graphics.Color)	4294952191 (0xFFFFC4FF)
YUV	220.3670, 17.0741, 30.3731
Hunter-Lab	82.4378, 26.8680, -16.7991

# Details

The Yxy color  $67.9599, 0.3154, 0.2712$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $87.2411, 0.3096, 0.3944$ , and the grayscale version is  $71.7084, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $98.7306, 0.3128, 0.3271$ , and  $35.4290, 0.3160, 0.2594$  is the 20% darker color. If you saturate the color by 10%, you get  $57.4168, 0.3166, 0.2464$ , and if you desaturate by 10%, it is  $80.4567, 0.3142, 0.2965$ .

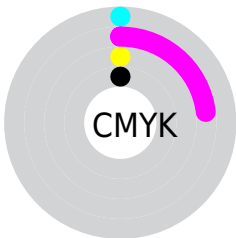
# Distribution



- 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 67.9599, 0.3154, 0.2712 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 67.9599, 0.3154, 0.2712 by changing the saturation by 10% instead.




 67.9599, 0.3154,  
0.2712

 67.9599, 0.3154,  
0.2712


453.3539, 0.3147,  
0.2969

 49.8651, 0.3154,  
0.2656


116.2948, 0.3152,  
0.2799

 35.3062, 0.3155,  
0.2587


147.3037, 0.3152,  
0.2834

 23.8989, 0.3154,  
0.2503

183.3860, 0.3151,  
0.2864

 15.2586, 0.3151,  
0.2395

224.9263, 0.3150,  
0.2890

 9.0011, 0.3146,  
0.2255

272.3088, 0.3149,  
0.2913

 4.7419, 0.3133,  
0.2063


325.9180, 0.3148,


 2.0966, 0.3104,


0.2934


0.1790


386.1382, 0.3148,  
0.2953

 0.6627, 0.3042,  
0.1346

 0.0000, 0.2496,  
0.0000


 67.9599, 0.3154,  
0.2712

 67.9599, 0.3154,  
0.2712

 57.4168, 0.3166,  
0.2464


 80.4567, 0.3142,  
0.2965

 48.7304, 0.3177,  
0.2230

 95.0008, 0.3131,  
0.3214

 41.7927, 0.3187,  
0.2020

100.0000, 0.3127,  
0.3290

 36.4852, 0.3195,  
0.1842

■ 32.6748, 0.3202,  
0.1704

■ 30.2077, 0.3206,  
0.1610

■ 28.8965, 0.3208,  
0.1558

■ 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.



67.9599, 0.2719, 0.2569



67.9599, 0.3154, 0.2712



67.9599, 0.3612, 0.2983

# Triad

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



67.9599, 0.3154, 0.2712



67.9599, 0.3866, 0.3991



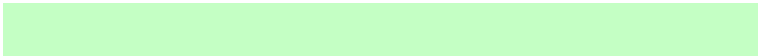
67.9599, 0.2370, 0.3159

# Complementary

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



67.9599, 0.3154, 0.2712



87.2411, 0.3096, 0.3944

# 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.



67.9599, 0.2639, 0.3612



67.9599, 0.3154, 0.2712



67.9599, 0.3499, 0.4116

# Square

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



67.9599, 0.3154, 0.2712



67.9599, 0.4037, 0.3695



67.9599, 0.3049, 0.3983



67.9599, 0.2293, 0.2791



# Rectangle

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



67.9599, 0.3154, 0.2712



67.9599, 0.3856, 0.3211



67.9599, 0.3049, 0.3983



67.9599, 0.2439, 0.3308

# Sweetspot

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



67.9593, 0.3154, 0.2712



89.1353, 0.3135, 0.3118



58.4349, 0.2732, 0.2636



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.



67.9593, 0.3154, 0.2712



62.5950, 0.3160, 0.2591



66.2029, 0.3373, 0.2992



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

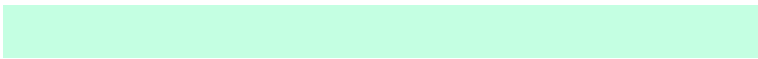
The Inverse Universe completely reimagines the original color for something new.



67.9593, 0.3154, 0.2712



62.5950, 0.3160, 0.2591



88.7191, 0.2937, 0.3609



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 67.9599, 0.3154, 0.2712 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

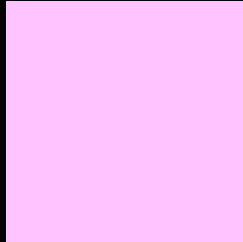
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.9599, 0.3154, 0.2712 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

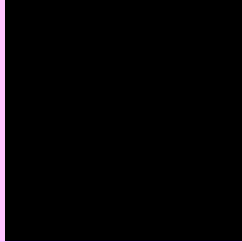
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.9599, 0.3154, 0.2712**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.9599, 0.3154, 0.2712.



This preview shows how white text looks on a background with the Yxy color 67.9599, 0.3154, 0.2712.

# 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

67.9599, 0.3154, 0.2712

### Protanopia

68.4349, 0.2812, 0.2849

### Deuteranopia

68.0269, 0.2908, 0.2845



## Tritanopia

68.0978, 0.3382, 0.3136

# Trichromacy



## Original Color

67.9599, 0.3154, 0.2712



## Protanomaly

67.6929, 0.2929, 0.2789



## Deuteranomaly

67.7434, 0.2991, 0.2794



## Tritanomaly

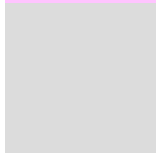
67.7735, 0.3303, 0.2976

# Monochromacy



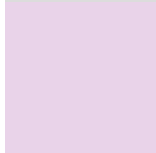
## Original Color

67.9599, 0.3154, 0.2712



## Achromatopsia

71.5694, 0.3127, 0.3290



## Achromatomaly

69.7954, 0.3138, 0.3059

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.9599, 0.3154, 0.2712 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, 196, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 196, 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, 196, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 196, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 67.9599, 0.3154, 0.2712 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, 196, 255) }
```

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

```
.border{ border-color:rgb(255, 196, 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, 196, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 196, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 196, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 196,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.9599, 0.3154, 0.2712 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 196, 255) }
```

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

```
.background{ background-color: rgb(255,  
196, 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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