

# Converting Colors

$Y_{xy}(82.7373, 0.3814, 0.2813)$

Have a look what the booklet for  
Yxy(82.7373, 0.3814, 0.2813)  
contains.

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# Color

**Yxy(64.4325, 0.3209, 0.2707)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBDF8
RGB	255, 189, 248
RGB Percent	100%, 74%, 97%
CMY	0.0000, 0.2588, 0.0275
CMYK	0.00, 0.26, 0.03, 0.00
HSL	306°, 100%, 87%
HSV	306°, 26%, 100%
XYZ	76.3812, 64.4325, 97.2081
YIQ	215.4600, 20.3970, 32.3410

# Conversions

## Conversions Part 2

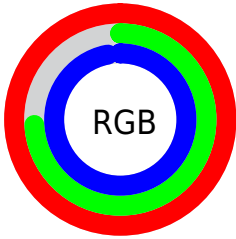
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 189, 248
Decimal	16760312
CIE <sub>Lab</sub>	84.19, 33.00, -19.84
CIE <sub>LCh</sub>	84, 38.505, 328.989
Y <sub>xy</sub>	64.4325, 0.3209, 0.2707
Android (android.graphics.Color)	4294950392 (0xFFFFBDF8)
YUV	215.4600, 16.0422, 34.6766
Hunter-Lab	80.2699, 29.3803, -15.6123

# Details

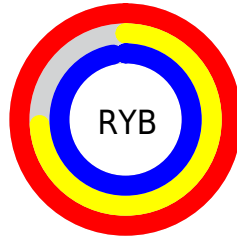
The Yxy color  $64.4325, 0.3209, 0.2707$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $86.3256, 0.3054, 0.3952$ , and the grayscale version is  $68.1620, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $94.3915, 0.3131, 0.3204$ , and  $33.1395, 0.3222, 0.2575$  is the 20% darker color. If you saturate the color by 10%, you get  $54.2436, 0.3247, 0.2482$ , and if you desaturate by 10%, it is  $76.5549, 0.3174, 0.2936$ .

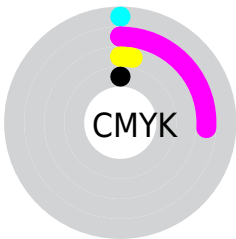
# Distribution



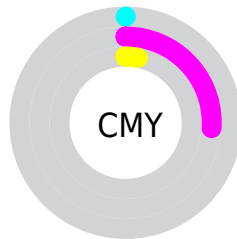
- Red (100%)
- Green (74%)
- Blue (97%)



- Red (100%)
- Yellow (74%)
- Blue (97%)



- Cyan (0%)
- Magenta (26%)
- Yellow (3%)
- Black (0%)




- Cyan (0%)
- Magenta (26%)
- Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.4325, 0.3209, 0.2707 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 64.4325, 0.3209, 0.2707 by changing the saturation by 10% instead.




 64.4325, 0.3209,  
0.2707

 64.4325, 0.3209,  
0.2707

440.7498, 0.3176,  
0.2969

 47.0011, 0.3215,  
0.2649


 111.2336, 0.3199,  
0.2796

 33.0365, 0.3223,  
0.2579


141.3720, 0.3194,  
0.2831

 22.1544, 0.3231,  
0.2492


176.5149, 0.3190,  
0.2862

 13.9704, 0.3240,  
0.2380

217.0466, 0.3187,  
0.2888

 8.1001, 0.3250,  
0.2233

263.3515, 0.3184,  
0.2912

 4.1591, 0.3259,  
0.2032


315.8141, 0.3181,


 1.7629, 0.3262,


0.2933

0.1742


374.8188, 0.3179,  
0.2952

 0.4639, 0.3287,  
0.1160


 0.0000, 0.2206,  
0.0000

 64.4325, 0.3209,  
0.2707


 64.4325, 0.3209,  
0.2707

 54.2436, 0.3247,  
0.2482


 76.5549, 0.3174,  
0.2936

 45.8835, 0.3287,  
0.2270

 90.7007, 0.3144,  
0.3161

 39.2431, 0.3329,  
0.2080

100.0000, 0.3127,  
0.3290

 34.2005, 0.3371,  
0.1923

■ 30.6177, 0.3413,  
0.1806

■ 28.3332, 0.3452,  
0.1734

■ 27.1467, 0.3488,  
0.1706

■ 26.8565, 0.3502,  
0.1703

# Harmonies

## Analogous

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



64.4325, 0.2741, 0.2540



64.4325, 0.3209, 0.2707



64.4325, 0.3688, 0.3003

# Triad

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



64.4325, 0.3209, 0.2707



64.4325, 0.3873, 0.4055



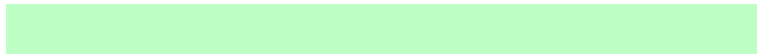
64.4325, 0.2309, 0.3100

# Complementary

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



64.4325, 0.3209, 0.2707



86.3256, 0.3054, 0.3952

# 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.



64.4325, 0.2570, 0.3579



64.4325, 0.3209, 0.2707



64.4325, 0.3468, 0.4166

# Square

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



64.4325, 0.3209, 0.2707



64.4325, 0.4082, 0.3754



64.4325, 0.2990, 0.3994



64.4325, 0.2252, 0.2728



# Rectangle

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



64.4325, 0.3209, 0.2707



64.4325, 0.3934, 0.3246



64.4325, 0.2990, 0.3994



64.4325, 0.2375, 0.3254

# Sweetspot

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



64.4338, 0.3209, 0.2707



87.5291, 0.3150, 0.3114



55.2999, 0.2722, 0.2556



18.2652, 0.3154, 0.3080



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.



64.4338, 0.3209, 0.2707



58.9819, 0.3228, 0.2591



62.5842, 0.3463, 0.3020



18.2652, 0.3154, 0.3080



14.0465, 0.3497, 0.1700



1.3768, 0.3460, 0.1680



# Inverse Universe

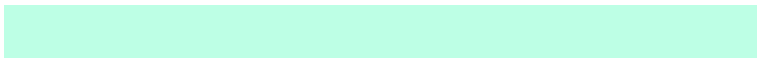
The Inverse Universe completely reimagines the original color for something new.



64.4338, 0.3209, 0.2707



58.9819, 0.3228, 0.2591



87.9743, 0.2881, 0.3578



18.2652, 0.3154, 0.3080



14.0465, 0.3497, 0.1700



1.3768, 0.3460, 0.1680



# Previews

## White Background



This preview shows how the Yxy color 64.4325, 0.3209, 0.2707 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

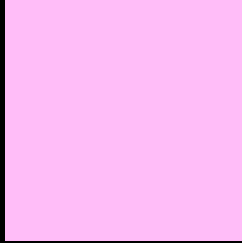
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.4325, 0.3209, 0.2707 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

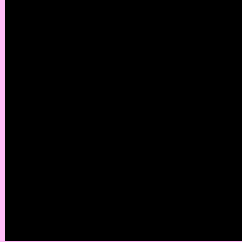
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.4325, 0.3209, 0.2707**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.4325, 0.3209, 0.2707.

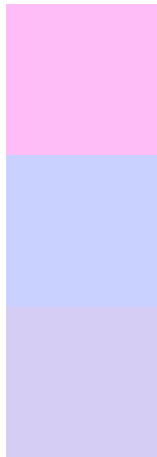


This preview shows how white text looks on a background with the Yxy color 64.4325, 0.3209, 0.2707.

# 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

64.4325, 0.3209, 0.2707

### Protanopia

65.1003, 0.2769, 0.2788

### Deuteranopia

64.5514, 0.2923, 0.2857



## Tritanopia

64.5070, 0.3447, 0.3135

# Trichromacy



## Original Color

64.4325, 0.3209, 0.2707



## Protanomaly

64.4850, 0.2919, 0.2760



## Deuteranomaly

64.1587, 0.3023, 0.2796



## Tritanomaly

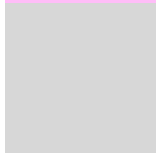
64.2172, 0.3365, 0.2973

# Monochromacy



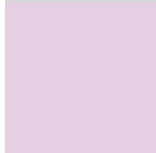
## Original Color

64.4325, 0.3209, 0.2707



## Achromatopsia

67.9542, 0.3127, 0.3290



## Achromatomaly

66.5117, 0.3160, 0.3065

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.4325, 0.3209, 0.2707 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, 189, 248)` looks like.

```
.text, #text, p{  
    color:rgb(255, 189, 248)  
}
```

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, 189, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 189, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 64.4325, 0.3209, 0.2707 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, 189, 248) }
```

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

```
.border{ border-color:rgb(255, 189, 248) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 189, 248)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 189, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 189, 248);  
box-shadow:4px 4px 4px 4px rgb(255, 189,  
248) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.4325, 0.3209, 0.2707 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 189, 248) }
```

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

```
.background{ background-color: rgb(255,  
189, 248) }
```

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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