

# Converting Colors

$Y_{xy}(63.6925, 0.3286, 0.2798)$

Have a look what the booklet for  
Yxy(63.6925, 0.3286, 0.2798)  
contains.

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# Color

**Yxy(63.8282, 0.3284, 0.2800)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBDEE
RGB	255, 189, 238
RGB Percent	100%, 74%, 93%
CMY	0.0001, 0.2587, 0.0666
CMYK	0.00, 0.26, 0.07, 0.00
HSL	315°, 100%, 87%
HSV	315°, 26%, 100%
XYZ	74.8614, 63.8282, 89.2683
YIQ	214.3200, 23.6070, 29.2310

# Conversions

## Conversions Part 2

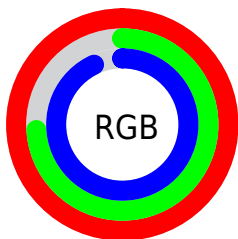
Format	Color
R <sub>Y</sub> B	255, 189, 238
Decimal	16760302
CIE <sub>Lab</sub>	83.88, 31.25, -14.99
CIE <sub>LCh</sub>	84, 34.660, 334.380
Y <sub>xy</sub>	63.8282, 0.3284, 0.2800
Android (android.graphics.Color)	4294950382 (0xFFFFBDEE)
YUV	214.3200, 11.6742, 35.6764
Hunter-Lab	79.8926, 27.4471, -10.3232

# Details

The Yxy color  $63.8282, 0.3284, 0.2800$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $86.7751, 0.3001, 0.3836$ , and the grayscale version is  $67.3808, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $94.3915, 0.3131, 0.3204$ , and  $32.7111, 0.3323, 0.2691$  is the 20% darker color. If you saturate the color by 10%, you get  $53.4294, 0.3362, 0.2607$ , and if you desaturate by 10%, it is  $76.1748, 0.3216, 0.2994$ .

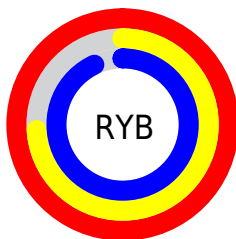
# Distribution



Red (100%)

Green (74%)

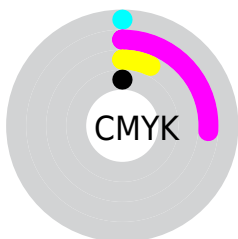
Blue (93%)



Red (100%)

Yellow (74%)

Blue (93%)

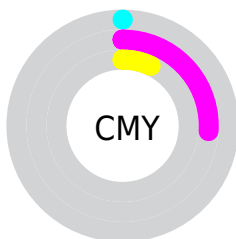


Cyan (0%)

Magenta (26%)

Yellow (7%)

Black (0%)



Cyan (0%)

Magenta (26%)


Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8282, 0.3284, 0.2800 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 63.8282, 0.3284, 0.2800 by changing the saturation by 10% instead.



 63.8282, 0.3284,  
0.2800

 63.8282, 0.3284,  
0.2800

438.5690, 0.3214,  
0.3022

 46.5115, 0.3299,  
0.2750


 110.3635, 0.3260,  
0.2876

 32.6497, 0.3318,  
0.2690


140.3509, 0.3251,  
0.2906

 21.8582, 0.3341,  
0.2614


175.3307, 0.3243,  
0.2932

 13.7528, 0.3370,  
0.2516

215.6872, 0.3236,  
0.2955

 7.9489, 0.3407,  
0.2386

261.8049, 0.3229,  
0.2974

 4.0623, 0.3459,  
0.2204

314.0682, 0.3224,

 1.7085, 0.3530,

0.2992

0.1936

372.8614, 0.3219,  
0.3008

0.4291, 0.3716,  
0.1312

0.0000, 0.2769,  
0.0000

63.8282, 0.3284,  
0.2800

63.8282, 0.3284,  
0.2800

53.4294, 0.3362,  
0.2607

76.1748, 0.3216,  
0.2994

44.8688, 0.3450,  
0.2423

90.5545, 0.3157,  
0.3183

38.0390, 0.3546,  
0.2257

99.9936, 0.3127,  
0.3290

32.8179, 0.3649,  
0.2120

■ 29.0673, 0.3756,  
0.2023

■ 26.6259, 0.3862,  
0.1973

■ 25.2933, 0.3965,  
0.1971

■ 24.9451, 0.4007,  
0.1981

# Harmonies

## Analogous

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



63.8282, 0.2849, 0.2623



63.8282, 0.3284, 0.2800



63.8282, 0.3701, 0.3089

# Triad

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



63.8282, 0.3284, 0.2800



63.8282, 0.3749, 0.4018



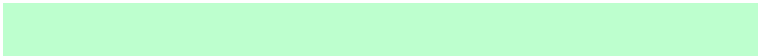
63.8282, 0.2360, 0.3051

# Complementary

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



63.8282, 0.3284, 0.2800



86.7751, 0.3001, 0.3836

# 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.



63.8282, 0.2568, 0.3473



63.8282, 0.3284, 0.2800



63.8282, 0.3363, 0.4068

# Square

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



63.8282, 0.3284, 0.2800



63.8282, 0.3974, 0.3773



63.8282, 0.2931, 0.3866



63.8282, 0.2341, 0.2739



# Rectangle

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



63.8282, 0.3284, 0.2800



63.8282, 0.3899, 0.3317



63.8282, 0.2931, 0.3866



63.8282, 0.2409, 0.3185

# Sweetspot

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



63.8310, 0.3284, 0.2800



87.3346, 0.3169, 0.3143



56.6731, 0.2792, 0.2570



18.2159, 0.3178, 0.3115



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.



63.8310, 0.3284, 0.2800



58.2702, 0.3323, 0.2700



62.0899, 0.3544, 0.3121



18.2159, 0.3178, 0.3115



13.0638, 0.3991, 0.1972



1.2897, 0.3881, 0.1912



# Inverse Universe

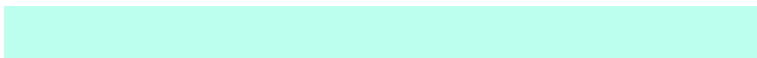
The Inverse Universe completely reimagines the original color for something new.



63.8310, 0.3284, 0.2800



58.2702, 0.3323, 0.2700



88.5211, 0.2830, 0.3467



18.2159, 0.3178, 0.3115



13.0638, 0.3991, 0.1972



1.2897, 0.3881, 0.1912



# Previews

## White Background



This preview shows how the Yxy color 63.8282, 0.3284, 0.2800 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

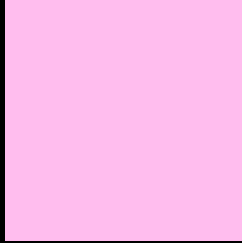
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.8282, 0.3284, 0.2800 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 63.8282, 0.3284, 0.2800**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.8282, 0.3284, 0.2800.



This preview shows how white text looks on a background with the Yxy color 63.8282, 0.3284, 0.2800.

# 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

63.8282, 0.3284, 0.2800

### Protanopia

64.4314, 0.2805, 0.2828

### Deuteranopia

64.0893, 0.3017, 0.2952



## Tritanopia

63.6963, 0.3474, 0.3135

# Trichromacy



## Original Color

63.8282, 0.3284, 0.2800



## Protanomaly

63.7993, 0.2965, 0.2809



## Deuteranomaly

63.8919, 0.3108, 0.2898



## Tritanomaly

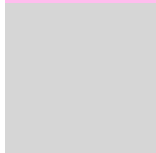
63.5620, 0.3398, 0.3003

# Monochromacy



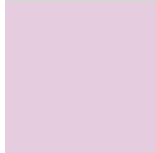
## Original Color

63.8282, 0.3284, 0.2800



## Achromatopsia

67.2443, 0.3127, 0.3290



## Achromatomaly

65.6484, 0.3182, 0.3096

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.8282, 0.3284, 0.2800 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, 238)` looks like.

```
.text, #text, p{  
    color:rgb(255, 189, 238)  
}
```

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, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 189, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 63.8282, 0.3284, 0.2800 is called "border". The border property can be set on classes, ids or directly on the HTML element.

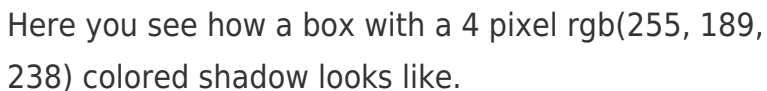
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 189, 238) }
```

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

```
.border{ border-color:rgb(255, 189, 238) }
```

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, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 189, 238); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 189, 238); box-shadow:4px 4px 4px 4px rgb(255, 189, 238) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.8282, 0.3284, 0.2800 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, 238) }
```

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

```
.background{ background-color: rgb(255,  
189, 238) }
```

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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