

# Converting Colors

$Y_{xy}(105.2050, 0.4337, 0.3146)$

Have a look what the booklet for  
Yxy(105.2050, 0.4337, 0.3146)  
contains.

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# Color

**Yxy(69.8820, 0.3367, 0.3078)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCCE1
RGB	255, 204, 225
RGB Percent	100%, 80%, 88%
CMY	0.0000, 0.2001, 0.1175
CMYK	0.00, 0.20, 0.12, 0.00
HSL	335°, 100%, 90%
HSV	335°, 20%, 100%
XYZ	76.4434, 69.8820, 80.7117
YIQ	221.6430, 23.6550, 17.3430

# Conversions

## Conversions Part 2

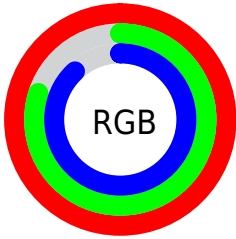
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 204, 225
Decimal	16764129
CIE <sub>Lab</sub>	86.94, 21.28, -3.52
CIE <sub>LCh</sub>	87, 21.570, 350.599
Yxy	69.8820, 0.3367, 0.3078
Android (android.graphics.Color)	4294954209 (0xFFFFCCE1)
YUV	221.6430, 1.6550, 29.2541
Hunter-Lab	83.5955, 16.9362, 1.2721

# Details

The Yxy color **69.8820, 0.3367, 0.3078** is a light color, and the websafe version is hex **FFCCCC**. A complement of this color would be **90.2920, 0.2937, 0.3513**, and the grayscale version is **72.7493, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **36.7207, 0.3423, 0.3032** is the 20% darker color. If you saturate the color by 10%, you get **57.9468, 0.3526, 0.2966**, and if you desaturate by 10%, it is **83.8553, 0.3235, 0.3187**.

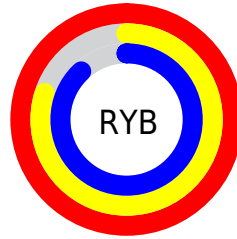
# Distribution



Red (100%)

Green (80%)

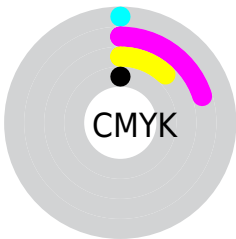
Blue (88%)



Red (100%)

Yellow (80%)

Blue (88%)

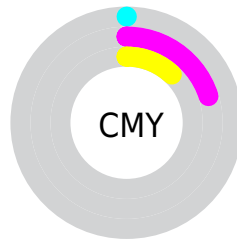


Cyan (0%)

Magenta (20%)

Yellow (12%)

Black (0%)



Cyan (0%)

Magenta (20%)


Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.8820, 0.3367, 0.3078 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 69.8820, 0.3367, 0.3078 by changing the saturation by 10% instead.




 69.8820, 0.3367,  
0.3078

 69.8820, 0.3367,  
0.3078


460.1356, 0.3256,  
0.3175

 51.4303, 0.3392,  
0.3056

119.0405, 0.3328,  
0.3112

 36.5512, 0.3424,  
0.3029


150.5161, 0.3313,  
0.3125

 24.8602, 0.3464,  
0.2994


187.1018, 0.3301,  
0.3136

 15.9729, 0.3516,  
0.2949

229.1819, 0.3289,  
0.3146

 9.5050, 0.3588,  
0.2889

277.1410, 0.3279,  
0.3155

 5.0720, 0.3691,  
0.2802


331.3634, 0.3271,


 2.2896, 0.3854,


0.3162

0.2667

392.2335, 0.3263,  
0.3169


 0.7682, 0.4155,  
0.2420


 0.0000, 1.0000,  
0.0000

 69.8820, 0.3367,  
0.3078


 69.8820, 0.3367,  
0.3078

 57.9468, 0.3526,  
0.2966


 83.8553, 0.3235,  
0.3187

 47.9784, 0.3717,  
0.2854

99.9852, 0.3127,  
0.3290

 39.8613, 0.3943,  
0.2751

100.0000, 0.3127,  
0.3290

 33.4789, 0.4203,  
0.2666

■ 28.7010, 0.4492,  
0.2611

■ 25.3791, 0.4796,  
0.2601

■ 23.3359, 0.5097,  
0.2643

■ 22.2840, 0.5375,  
0.2734

# Harmonies

## Analogous

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



69.8820, 0.3102, 0.2922



69.8820, 0.3367, 0.3078



69.8820, 0.3572, 0.3288

# Triad

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



69.8820, 0.3367, 0.3078



69.8820, 0.3392, 0.3759



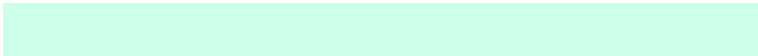
69.8820, 0.2629, 0.3039

# Complementary

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



69.8820, 0.3367, 0.3078



90.2920, 0.2937, 0.3513

# 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.



69.8820, 0.2700, 0.3267



69.8820, 0.3367, 0.3078



69.8820, 0.3135, 0.3699

# Square

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



69.8820, 0.3367, 0.3078



69.8820, 0.3584, 0.3683



69.8820, 0.2882, 0.3514



69.8820, 0.2684, 0.2892



# Rectangle

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



69.8820, 0.3367, 0.3078



69.8820, 0.3641, 0.3436



69.8820, 0.2882, 0.3514



69.8820, 0.2639, 0.3108

# Sweetspot

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



69.8730, 0.3366, 0.3078



90.0582, 0.3189, 0.3229



67.8439, 0.2997, 0.2767



19.0547, 0.3196, 0.3222



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.



69.8730, 0.3366, 0.3078



64.8716, 0.3427, 0.3033



70.8426, 0.3519, 0.3335



18.1113, 0.3229, 0.3192



11.6718, 0.5333, 0.2711



1.1576, 0.5036, 0.2548



# Inverse Universe

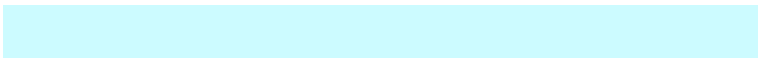
The Inverse Universe completely reimagines the original color for something new.



69.8730, 0.3366, 0.3078



64.8716, 0.3427, 0.3033



88.8914, 0.2824, 0.3245



18.1113, 0.3229, 0.3192



11.6718, 0.5333, 0.2711



1.1576, 0.5036, 0.2548



# Previews

## White Background



This preview shows how the Yxy color 69.8820, 0.3367, 0.3078 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

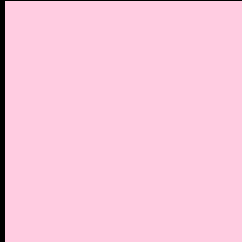
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.8820, 0.3367, 0.3078 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 69.8820, 0.3367, 0.3078**

## Background



This preview shows how black text looks on a background with the Yxy color 69.8820, 0.3367, 0.3078.



This preview shows how white text looks on a background with the Yxy color 69.8820, 0.3367, 0.3078.

# 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

69.8820, 0.3367, 0.3078

### Protanopia

70.4143, 0.3029, 0.3117

### Deuteranopia

69.8032, 0.3223, 0.3153



## Tritanopia

69.9539, 0.3388, 0.3128

# Trichromacy



## Original Color

69.8820, 0.3367, 0.3078

## Protanomaly

69.7891, 0.3143, 0.3099

## Deuteranomaly

69.5483, 0.3278, 0.3124

## Tritanomaly

70.0074, 0.3380, 0.3118

# Monochromacy



## Original Color

69.8820, 0.3367, 0.3078

## Achromatopsia

73.0461, 0.3127, 0.3290

## Achromatomaly

71.4210, 0.3211, 0.3206

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.8820, 0.3367, 0.3078 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, 204, 225)` looks like.

```
.text, #text, p{  
    color:rgb(255, 204, 225)  
}
```

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, 204, 225) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 204, 225) }
```

## Border

The CSS property to change the border of an element to Yxy 69.8820, 0.3367, 0.3078 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, 204, 225) }
```

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

```
.border{ border-color:rgb(255, 204, 225) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 204, 225)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 204, 225); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 204, 225);  
box-shadow:4px 4px 4px 4px rgb(255, 204,  
225) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.8820, 0.3367, 0.3078 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 204, 225) }
```

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

```
.background{ background-color: rgb(255,  
204, 225) }
```

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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