

# Converting Colors

$Y_{xy}(70.6729, 0.3264, 0.2942)$

Have a look what the booklet for  
Yxy(70.6729, 0.3264, 0.2942)  
contains.

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# Color

**Yxy(70.6777, 0.3264, 0.2942)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCCEF
RGB	255, 204, 239
RGB Percent	100%, 80%, 94%
CMY	0.0000, 0.2000, 0.0629
CMYK	0.00, 0.20, 0.06, 0.00
HSL	319°, 100%, 90%
HSV	319°, 20%, 100%
XYZ	78.4133, 70.6777, 91.1459
YIQ	223.2390, 19.1610, 21.6970

# Conversions

## Conversions Part 2

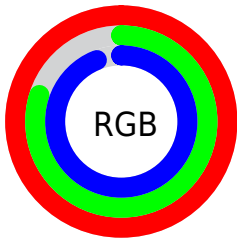
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 204, 239
Decimal	16764143
CIE Lab	87.33, 23.56, -10.34
CIE LCh	87, 25.732, 336.311
Yxy	70.6777, 0.3264, 0.2942
Android (android.graphics.Color)	4294954223 (0xFFFFCCEF)
YUV	223.2390, 7.7702, 27.8544
Hunter-Lab	84.0700, 19.3670, -5.4312

# Details

The Yxy color  $70.6777, 0.3264, 0.2942$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $89.5270, 0.3013, 0.3665$ , and the grayscale version is  $73.9022, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $37.2374, 0.3295, 0.2871$  is the 20% darker color. If you saturate the color by 10%, you get  $59.0684, 0.3350, 0.2761$ , and if you desaturate by 10%, it is  $84.2922, 0.3190, 0.3120$ .

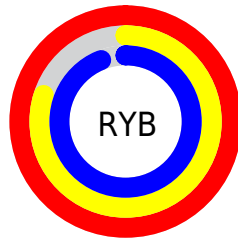
# Distribution



Red (100%)

Green (80%)

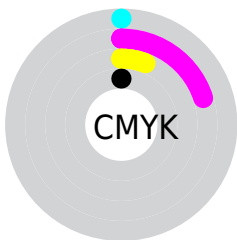
Blue (94%)



Red (100%)

Yellow (80%)

Blue (94%)

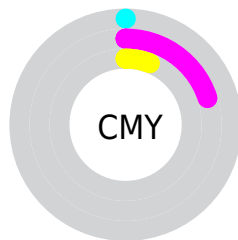


Cyan (0%)

Magenta (20%)

Yellow (6%)

Black (0%)



Cyan (0%)

Magenta (20%)


Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.6777, 0.3264, 0.2942 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 70.6777, 0.3264, 0.2942 by changing the saturation by 10% instead.




 70.6777, 0.3264,  
0.2942

 70.6777, 0.3264,  
0.2942


462.9260, 0.3203,  
0.3099

 52.0792, 0.3278,  
0.2907


120.1747, 0.3243,  
0.2996

 37.0682, 0.3294,  
0.2864


151.8420, 0.3235,  
0.3017

 25.2603, 0.3315,  
0.2811


188.6344, 0.3228,  
0.3035

 16.2711, 0.3341,  
0.2742

230.9362, 0.3221,  
0.3051

 9.7162, 0.3376,  
0.2651

279.1319, 0.3216,  
0.3065

 5.2112, 0.3425,  
0.2523

333.6058, 0.3211,

 2.3717, 0.3496,

0.3078

0.2332

394.7424, 0.3207,  
0.3089

0.8113, 0.3613,  
0.2016

0.0000, 0.4233,  
0.0000

70.6777, 0.3264,  
0.2942

70.6777, 0.3264,  
0.2942

59.0684, 0.3350,  
0.2761

84.2922, 0.3190,  
0.3120

49.3680, 0.3450,  
0.2583

100.0000, 0.3127,  
0.3290

41.4714, 0.3563,  
0.2416

35.2638, 0.3687,  
0.2271

■ 30.6169, 0.3819,  
0.2159

■ 27.3840, 0.3956,  
0.2091

■ 25.3900, 0.4092,  
0.2073

■ 24.3490, 0.4224,  
0.2101

■ 24.3489, 0.4224,  
0.2101

# Harmonies

## Analogous

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



70.6777, 0.2948, 0.2804



70.6777, 0.3264, 0.2942



70.6777, 0.3555, 0.3163

# Triad

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



70.6777, 0.3264, 0.2942



70.6777, 0.3564, 0.3822



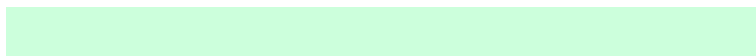
70.6777, 0.2561, 0.3109

# Complementary

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



70.6777, 0.3264, 0.2942



89.5270, 0.3013, 0.3665

# 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.



70.6777, 0.2710, 0.3404



70.6777, 0.3264, 0.2942



70.6777, 0.3284, 0.3835

# Square

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



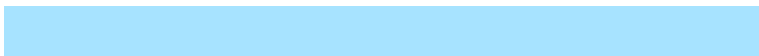
70.6777, 0.3264, 0.2942



70.6777, 0.3730, 0.3664



70.6777, 0.2971, 0.3680



70.6777, 0.2555, 0.2885



# Rectangle

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



70.6777, 0.3264, 0.2942



70.6777, 0.3688, 0.3335



70.6777, 0.2971, 0.3680



70.6777, 0.2596, 0.3203

# Sweetspot

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



70.6776, 0.3264, 0.2942



90.3178, 0.3163, 0.3189



65.5145, 0.2896, 0.2752



19.1161, 0.3168, 0.3178



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.



70.6776, 0.3264, 0.2942



65.7969, 0.3297, 0.2870



69.3128, 0.3448, 0.3187



18.1975, 0.3186, 0.3128



12.7510, 0.4203, 0.2089



1.2613, 0.4061, 0.2011



# Inverse Universe

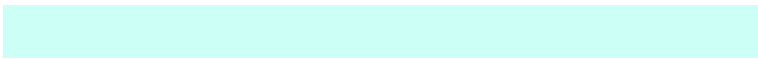
The Inverse Universe completely reimagines the original color for something new.



70.6776, 0.3264, 0.2942



65.7969, 0.3297, 0.2870



90.9383, 0.2880, 0.3396



18.1975, 0.3186, 0.3128



12.7510, 0.4203, 0.2089



1.2613, 0.4061, 0.2011



# Previews

## White Background



This preview shows how the Yxy color 70.6777, 0.3264, 0.2942 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

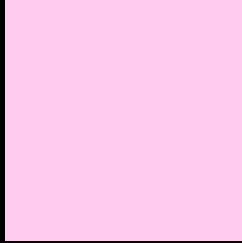
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.6777, 0.3264, 0.2942 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

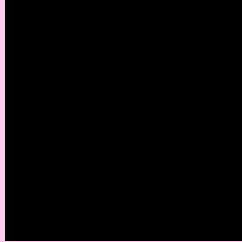
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.6777, 0.3264, 0.2942**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.6777, 0.3264, 0.2942.



This preview shows how white text looks on a background with the Yxy color 70.6777, 0.3264, 0.2942.

# 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

70.6777, 0.3264, 0.2942

### Protanopia

70.7882, 0.2920, 0.2969

### Deuteranopia

70.8587, 0.3103, 0.3039



## Tritanopia

70.8360, 0.3362, 0.3128

# Trichromacy



## Original Color

70.6777, 0.3264, 0.2942

## Protanomaly

70.4416, 0.3042, 0.2956

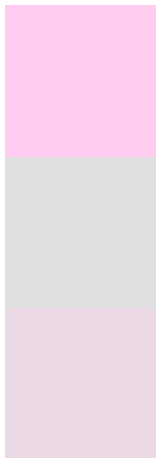
## Deuteranomaly

70.7915, 0.3155, 0.3002

## Tritanomaly

70.8706, 0.3327, 0.3059

# Monochromacy



## Original Color

70.6777, 0.3264, 0.2942

## Achromatopsia

73.7910, 0.3127, 0.3290

## Achromatomaly

72.4310, 0.3177, 0.3154

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.6777, 0.3264, 0.2942 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, 239)` looks like.

```
.text, #text, p{  
    color:rgb(255, 204, 239)  
}
```

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, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 204, 239) }
```

## Border

The CSS property to change the border of an element to Yxy 70.6777, 0.3264, 0.2942 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, 239) }
```

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

```
.border{ border-color:rgb(255, 204, 239) }
```

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, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 204, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 204, 239);  
box-shadow:4px 4px 4px 4px rgb(255, 204,  
239) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.6777, 0.3264, 0.2942 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, 239) }
```

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

```
.background{ background-color: rgb(255,  
204, 239) }
```

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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