

# Converting Colors

$Y_{xy}(82.4150, 0.3679, 0.2983)$

Have a look what the booklet for  
Yxy(82.4150, 0.3679, 0.2983)  
contains.

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# Color

**Yxy(70.2039, 0.3265, 0.2932)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCBEF
RGB	255, 203, 239
RGB Percent	100%, 80%, 94%
CMY	0.0000, 0.2039, 0.0629
CMYK	0.00, 0.20, 0.06, 0.00
HSL	319°, 100%, 90%
HSV	319°, 20%, 100%
XYZ	78.1773, 70.2039, 91.0592
YIQ	222.6520, 19.4360, 22.2200

# Conversions

## Conversions Part 2

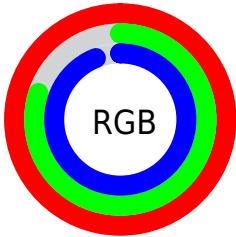
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 203, 239
Decimal	16763887
CIE <sub>Lab</sub>	87.10, 24.09, -10.68
CIE <sub>LCh</sub>	87, 26.350, 336.095
Yxy	70.2039, 0.3265, 0.2932
Android (android.graphics.Color)	4294953967 (0xFFFFCBEF)
YUV	222.6520, 8.0596, 28.3692
Hunter-Lab	83.7878, 19.9189, -5.7839

# Details

The Yxy color  $70.2039, 0.3265, 0.2932$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $89.3335, 0.3012, 0.3677$ , and the grayscale version is  $73.4602, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $36.9196, 0.3296, 0.2858$  is the 20% darker color. If you saturate the color by 10%, you get  $58.6777, 0.3350, 0.2750$ , and if you desaturate by 10%, it is  $83.7280, 0.3191, 0.3111$ .

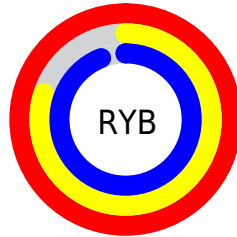
# Distribution



Red (100%)

Green (80%)

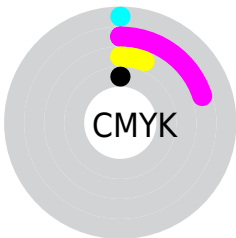
Blue (94%)



Red (100%)

Yellow (80%)

Blue (94%)

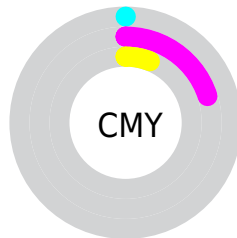


Cyan (0%)

Magenta (20%)

Yellow (6%)

Black (0%)



Cyan (0%)

Magenta (20%)


Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.2039, 0.3265, 0.2932 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 70.2039, 0.3265, 0.2932 by changing the saturation by 10% instead.



 70.2039, 0.3265,  
0.2932

 70.2039, 0.3265,  
0.2932


461.2656, 0.3203,  
0.3094

 51.6928, 0.3279,  
0.2896

119.4995, 0.3244,  
0.2987

 36.7603, 0.3295,  
0.2852


151.0527, 0.3236,  
0.3009

 25.0219, 0.3316,  
0.2797


187.7222, 0.3228,  
0.3028

 16.0934, 0.3343,  
0.2726

229.8921, 0.3222,  
0.3044

 9.5903, 0.3378,  
0.2632

277.9471, 0.3217,  
0.3059

 5.1281, 0.3426,  
0.2501


332.2714, 0.3212,


 2.3226, 0.3498,


0.3072


0.2304

393.2494, 0.3207,  
0.3083


 0.7857, 0.3615,  
0.1976


 0.0000, 0.4161,  
0.0000

 70.2039, 0.3265,  
0.2932


 70.2039, 0.3265,  
0.2932

 58.6777, 0.3350,  
0.2750


 83.7280, 0.3191,  
0.3111

 49.0571, 0.3449,  
0.2570

99.3451, 0.3129,  
0.3283

 41.2352, 0.3560,  
0.2403

100.0000, 0.3127,  
0.3290

 35.0969, 0.3681,  
0.2258

■ 30.5132, 0.3811,  
0.2147

■ 27.3365, 0.3945,  
0.2079

■ 25.3904, 0.4078,  
0.2062

■ 24.4079, 0.4201,  
0.2088

# Harmonies

## Analogous

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



70.2039, 0.2941, 0.2791



70.2039, 0.3265, 0.2932



70.2039, 0.3564, 0.3158

# Triad

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



70.2039, 0.3265, 0.2932



70.2039, 0.3577, 0.3835



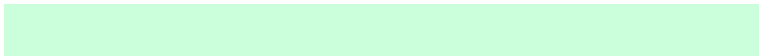
70.2039, 0.2547, 0.3106

# Complementary

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



70.2039, 0.3265, 0.2932



89.3335, 0.3012, 0.3677

# 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.



70.2039, 0.2700, 0.3409



70.2039, 0.3265, 0.2932



70.2039, 0.3290, 0.3851

# Square

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



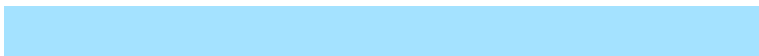
70.2039, 0.3265, 0.2932



70.2039, 0.3747, 0.3671



70.2039, 0.2969, 0.3692



70.2039, 0.2541, 0.2875



# Rectangle

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



70.2039, 0.3265, 0.2932



70.2039, 0.3702, 0.3333



70.2039, 0.2969, 0.3692



70.2039, 0.2583, 0.3202

# Sweetspot

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



70.2024, 0.3265, 0.2932



90.3234, 0.3163, 0.3188



64.9311, 0.2891, 0.2740



19.1174, 0.3167, 0.3177



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.



70.2024, 0.3265, 0.2932



65.8177, 0.3294, 0.2866



68.7973, 0.3456, 0.3185



18.1993, 0.3186, 0.3127



12.7817, 0.4181, 0.2077



1.2641, 0.4042, 0.2000



# Inverse Universe

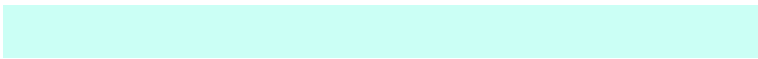
The Inverse Universe completely reimagines the original color for something new.



70.2024, 0.3265, 0.2932



65.8177, 0.3294, 0.2866



90.7850, 0.2875, 0.3398



18.1993, 0.3186, 0.3127



12.7817, 0.4181, 0.2077



1.2641, 0.4042, 0.2000



# Previews

## White Background



This preview shows how the Yxy color 70.2039, 0.3265, 0.2932 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

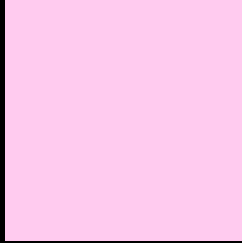
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.2039, 0.3265, 0.2932 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

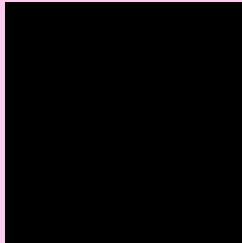
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.2039, 0.3265, 0.2932**

## Background



This preview shows how black text looks on a background with the Yxy color 70.2039, 0.3265, 0.2932.



This preview shows how white text looks on a background with the Yxy color 70.2039, 0.3265, 0.2932.

# 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

70.2039, 0.3265, 0.2932

### Protanopia

70.6992, 0.2908, 0.2958

### Deuteranopia

70.1903, 0.3096, 0.3027



## Tritanopia

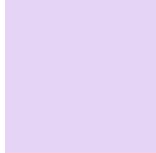
70.2992, 0.3371, 0.3128

# Trichromacy



## Original Color

70.2039, 0.3265, 0.2932



## Protanomaly

70.3376, 0.3029, 0.2945



## Deuteranomaly

70.2992, 0.3156, 0.2991



## Tritanomaly

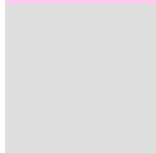
70.3349, 0.3335, 0.3058

# Monochromacy



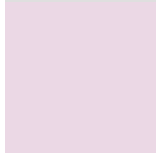
## Original Color

70.2039, 0.3265, 0.2932



## 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 70.2039, 0.3265, 0.2932 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, 203, 239)` looks like.

```
.text, #text, p{  
    color:rgb(255, 203, 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, 203, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 203, 239) }
```

## Border

The CSS property to change the border of an element to Yxy 70.2039, 0.3265, 0.2932 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, 203, 239) }
```

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

```
.border{ border-color:rgb(255, 203, 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, 203, 239) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 203, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 203, 239);  
box-shadow:4px 4px 4px 4px rgb(255, 203,  
239) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.2039, 0.3265, 0.2932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 203, 239) }
```

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

```
.background{ background-color: rgb(255,  
203, 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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