

# Converting Colors

$Y_{xy}(70.5061, 0.3285, 0.2970)$

Have a look what the booklet for  
Yxy(70.5061, 0.3285, 0.2970)  
contains.

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# Color

**Yxy(70.5019, 0.3285, 0.2971)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCCEC
RGB	255, 204, 236
RGB Percent	100%, 80%, 93%
CMY	0.0003, 0.1999, 0.0746
CMYK	0.00, 0.20, 0.07, 0.00
HSL	322°, 100%, 90%
HSV	322°, 20%, 100%
XYZ	77.9531, 70.5019, 88.8452
YIQ	222.8970, 20.1240, 20.7640

# Conversions

## Conversions Part 2

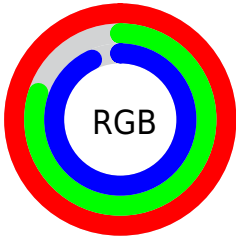
Format	Color
R <sub>Y</sub> B	255, 204, 236
Decimal	16764140
CIE Lab	87.24, 23.01, -8.89
CIE LCh	87, 24.670, 338.886
Yxy	70.5019, 0.3285, 0.2971
Android (android.graphics.Color)	4294954220 (0xFFFFCCEC)
YUV	222.8970, 6.4598, 28.1543
Hunter-Lab	83.9654, 18.7792, -3.9600

# Details

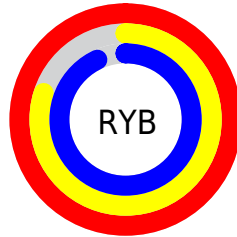
The Yxy color  $70.5019, 0.3285, 0.2971$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $89.6469, 0.2997, 0.3632$ , and the grayscale version is  $73.6560, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $37.1137, 0.3324, 0.2907$  is the 20% darker color. If you saturate the color by 10%, you get  $58.8224, 0.3386, 0.2804$ , and if you desaturate by 10%, it is  $84.2005, 0.3199, 0.3134$ .

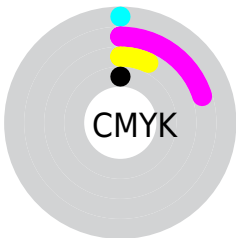
# Distribution



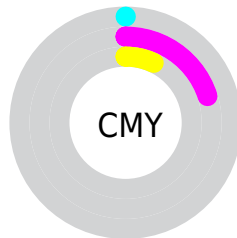
- Red (100%)
- Green (80%)
- Blue (93%)



- Red (100%)
- Yellow (80%)
- Blue (93%)



- Cyan (0%)
- Magenta (20%)
- Yellow (7%)
- Black (0%)




- Cyan (0%)
- Magenta (20%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.5019, 0.3285, 0.2971 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 70.5019, 0.3285, 0.2971 by changing the saturation by 10% instead.




 70.5019, 0.3285,  
0.2971

 70.5019, 0.3285,  
0.2971


462.3103, 0.3213,  
0.3116

 51.9358, 0.3301,  
0.2939


119.9242, 0.3260,  
0.3021

 36.9539, 0.3321,  
0.2899


151.5492, 0.3251,  
0.3040

 25.1718, 0.3345,  
0.2850


188.2960, 0.3243,  
0.3057

 16.2051, 0.3377,  
0.2786

230.5490, 0.3235,  
0.3071

 9.6694, 0.3419,  
0.2701

278.6925, 0.3229,  
0.3084

 5.1803, 0.3479,  
0.2581


333.1110, 0.3223,


 2.3534, 0.3569,


0.3096


0.2402


394.1888, 0.3218,  
0.3106


 0.8018, 0.3721,  
0.2098


 0.0000, 0.4846,  
0.0000

 70.5019, 0.3285,  
0.2971


 70.5019, 0.3285,  
0.2971

 58.8224, 0.3386,  
0.2804

 84.2005, 0.3199,  
0.3134

 49.0557, 0.3504,  
0.2639

99.9853, 0.3127,  
0.3290

 41.1001, 0.3639,  
0.2485

99.9875, 0.3127,  
0.3290

 34.8407, 0.3790,  
0.2351

■ 30.1489, 0.3952,  
0.2249

■ 26.8782, 0.4122,  
0.2192

■ 24.8533, 0.4292,  
0.2186

■ 23.7898, 0.4457,  
0.2229

■ 23.7867, 0.4457,  
0.2229

# Harmonies

## Analogous

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



70.5019, 0.2980, 0.2830



70.5019, 0.3285, 0.2971



70.5019, 0.3557, 0.3189

# Triad

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



70.5019, 0.3285, 0.2971



70.5019, 0.3527, 0.3808



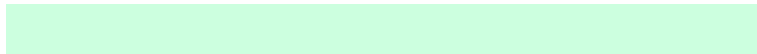
70.5019, 0.2577, 0.3095

# Complementary

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



70.5019, 0.3285, 0.2971



89.6469, 0.2997, 0.3632

# 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.



70.5019, 0.2709, 0.3375



70.5019, 0.3285, 0.2971



70.5019, 0.3252, 0.3806

# Square

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



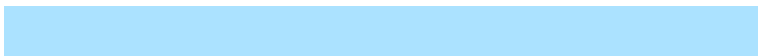
70.5019, 0.3285, 0.2971



70.5019, 0.3698, 0.3667



70.5019, 0.2953, 0.3644



70.5019, 0.2584, 0.2888



# Rectangle

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



70.5019, 0.3285, 0.2971



70.5019, 0.3677, 0.3356



70.5019, 0.2953, 0.3644



70.5019, 0.2606, 0.3184

# Sweetspot

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



70.5050, 0.3285, 0.2971



90.2623, 0.3169, 0.3197



66.0580, 0.2920, 0.2756



19.1030, 0.3174, 0.3187



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.



70.5050, 0.3285, 0.2971



65.5932, 0.3324, 0.2904



69.1439, 0.3474, 0.3222



18.1789, 0.3195, 0.3142



12.4662, 0.4431, 0.2215



1.2350, 0.4254, 0.2117



# Inverse Universe

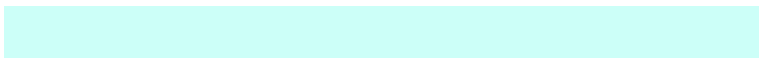
The Inverse Universe completely reimagines the original color for something new.



70.5050, 0.3285, 0.2971



65.5932, 0.3324, 0.2904



91.1067, 0.2863, 0.3360



18.1789, 0.3195, 0.3142



12.4662, 0.4431, 0.2215



1.2350, 0.4254, 0.2117



# Previews

## White Background



This preview shows how the Yxy color 70.5019, 0.3285, 0.2971 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

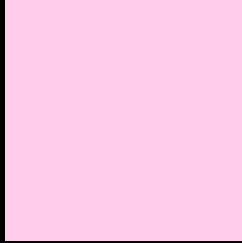
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.5019, 0.3285, 0.2971 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

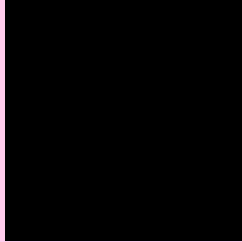
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.5019, 0.3285, 0.2971**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.5019, 0.3285, 0.2971.

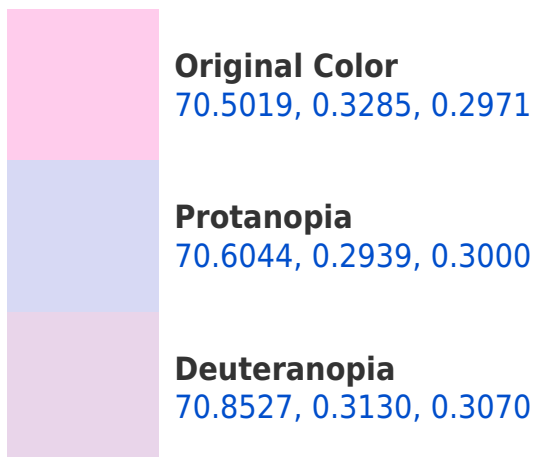


This preview shows how white text looks on a background with the Yxy color 70.5019, 0.3285, 0.2971.

# 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





## Tritanopia

70.2992, 0.3371, 0.3128

# Trichromacy



## Original Color

70.5019, 0.3285, 0.2971

## Protanomaly

70.2608, 0.3062, 0.2986

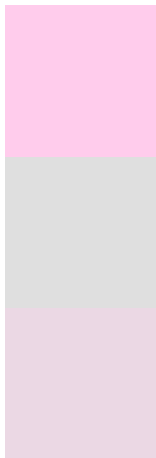
## Deuteranomaly

70.7921, 0.3183, 0.3032

## Tritanomaly

70.2795, 0.3343, 0.3068

# Monochromacy



## Original Color

70.5019, 0.3285, 0.2971

## Achromatopsia

73.7910, 0.3127, 0.3290

## Achromatomaly

72.3753, 0.3184, 0.3164

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.5019, 0.3285, 0.2971 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, 236)` looks like.

```
.text, #text, p{  
    color:rgb(255, 204, 236)  
}
```

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, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 204, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 70.5019, 0.3285, 0.2971 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, 236) }
```

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

```
.border{ border-color:rgb(255, 204, 236) }
```

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, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 204, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 204, 236);  
box-shadow:4px 4px 4px 4px rgb(255, 204,  
236) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.5019, 0.3285, 0.2971 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, 236) }
```

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

```
.background{ background-color: rgb(255,  
204, 236) }
```

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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