

# Converting Colors

$Y_{xy}(83.8201, 0.2698, 0.2086)$

Have a look what the booklet for  
Yxy(83.8201, 0.2698, 0.2086)  
contains.

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# Color

**Yxy(72.1426, 0.3150, 0.2801)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFCDFF
RGB	255, 205, 255
RGB Percent	100%, 80%, 100%
CMY	0.0000, 0.1961, 0.0000
CMYK	0.00, 0.20, 0.00, 0.00
HSL	300°, 100%, 90%
HSV	300°, 20%, 100%
XYZ	81.1314, 72.1426, 104.2861
YIQ	225.6500, 13.7500, 26.1500

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 205, 255
Decimal	16764415
CIE Lab	88.04, 25.86, -17.77
CIE LCh	88, 31.381, 325.509
Yxy	72.1426, 0.3150, 0.2801
Android (android.graphics.Color)	4294954495 (0xFFFFCDFF)
YUV	225.6500, 14.4696, 25.7400
Hunter-Lab	84.9368, 21.8634, -13.3410

# Details

The Yxy color **72.1426, 0.3150, 0.2801** is a light color, and the websafe version is hex **FFCCFF**. A complement of this color would be **88.9055, 0.3102, 0.3832**, and the grayscale version is **75.6695, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **37.8957, 0.3155, 0.2694** is the 20% darker color. If you saturate the color by 10%, you get **60.9181, 0.3162, 0.2551**, and if you desaturate by 10%, it is **85.3483, 0.3138, 0.3053**.

# Distribution



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



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



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




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.1426, 0.3150, 0.2801 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 72.1426, 0.3150, 0.2801 by changing the saturation by 10% instead.




 72.1426, 0.3150,  
0.2801

 72.1426, 0.3150,  
0.2801


468.0378, 0.3143,  
0.3018

 53.2752, 0.3151,  
0.2753

122.2592, 0.3148,  
0.2875

 38.0225, 0.3151,  
0.2696


154.2773, 0.3148,  
0.2904

 26.0001, 0.3151,  
0.2624


191.4476, 0.3147,  
0.2929

 16.8237, 0.3150,  
0.2533

234.1546, 0.3146,  
0.2951

 10.1089, 0.3147,  
0.2414

282.7828, 0.3145,  
0.2971

 5.4712, 0.3140,  
0.2252

337.7164, 0.3145,

 2.5263, 0.3122,

0.2988

0.2018

399.3400, 0.3144,  
0.3004

0.8898, 0.3076,  
0.1658

0.0000, 0.2968,  
0.0000

72.1426, 0.3150,  
0.2801

72.1426, 0.3150,  
0.2801

60.9181, 0.3162,  
0.2551

85.3483, 0.3138,  
0.3053

51.5888, 0.3173,  
0.2311

100.0000, 0.3127,  
0.3290

44.0472, 0.3183,  
0.2091

38.1791, 0.3192,  
0.1900

■ 33.8570, 0.3200,  
0.1748

■ 30.9353, 0.3205,  
0.1638

■ 29.2408, 0.3208,  
0.1572

■ 28.5016, 0.3209,  
0.1542

■ 28.4800, 0.3209,  
0.1542

# Harmonies

## Analogous

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



72.1426, 0.2786, 0.2681



72.1426, 0.3150, 0.2801



72.1426, 0.3528, 0.3032

# Triad

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



72.1426, 0.3150, 0.2801



72.1426, 0.3746, 0.3878



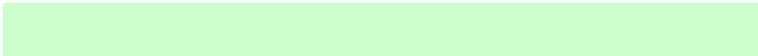
72.1426, 0.2493, 0.3189

# Complementary

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



72.1426, 0.3150, 0.2801



88.9055, 0.3102, 0.3832

# 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.



72.1426, 0.2723, 0.3559



72.1426, 0.3150, 0.2801



72.1426, 0.3445, 0.3972

# Square

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



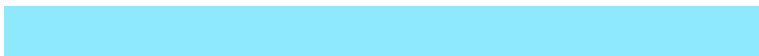
72.1426, 0.3150, 0.2801



72.1426, 0.3883, 0.3636



72.1426, 0.3069, 0.3859



72.1426, 0.2424, 0.2879



# Rectangle

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



72.1426, 0.3150, 0.2801



72.1426, 0.3730, 0.3227



72.1426, 0.3069, 0.3859



72.1426, 0.2553, 0.3312

# Sweetspot

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



72.1392, 0.3150, 0.2801



90.6237, 0.3134, 0.3143



63.8573, 0.2799, 0.2748



19.1886, 0.3135, 0.3127



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.



72.1392, 0.3150, 0.2801



66.9746, 0.3155, 0.2691



70.6321, 0.3328, 0.3039



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

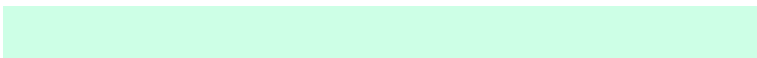
The Inverse Universe completely reimagines the original color for something new.



72.1392, 0.3150, 0.2801



66.9746, 0.3155, 0.2691



90.2111, 0.2964, 0.3555



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 72.1426, 0.3150, 0.2801 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

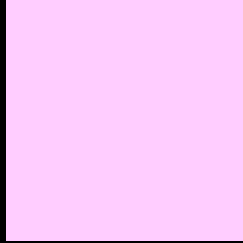
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.1426, 0.3150, 0.2801 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

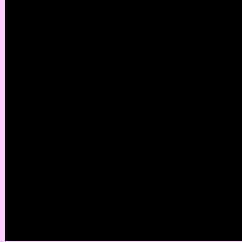
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.1426, 0.3150, 0.2801**

## Background



This preview shows how black text looks on a background with the Yxy color 72.1426, 0.3150, 0.2801.



This preview shows how white text looks on a background with the Yxy color 72.1426, 0.3150, 0.2801.

# 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

72.1426, 0.3150, 0.2801

### Protanopia

72.7025, 0.2867, 0.2920

### Deuteranopia

72.0236, 0.2964, 0.2896



## Tritanopia

72.0934, 0.3322, 0.3128

# Trichromacy



## Original Color

72.1426, 0.3150, 0.2801



## Protanomaly

72.4789, 0.2965, 0.2878



## Deuteranomaly

71.7488, 0.3027, 0.2853



## Tritanomaly

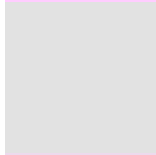
71.9216, 0.3252, 0.2999

# Monochromacy



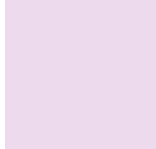
## Original Color

72.1426, 0.3150, 0.2801



## Achromatopsia

76.0525, 0.3127, 0.3290



## Achromatomaly

74.2618, 0.3136, 0.3094

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.1426, 0.3150, 0.2801 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, 205, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 205, 255)  
}
```

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, 205, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 205, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 72.1426, 0.3150, 0.2801 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, 205, 255) }
```

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

```
.border{ border-color:rgb(255, 205, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 205, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 205, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 205, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 205,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.1426, 0.3150, 0.2801 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 205, 255) }
```

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

```
.background{ background-color: rgb(255,  
205, 255) }
```

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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