

# Converting Colors

$Y_{xy}(70.2100, 0.2710, 0.2498)$

Have a look what the booklet for  
Yxy(70.2100, 0.2710, 0.2498)  
contains.

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# Color

**Yxy(68.0366, 0.2902, 0.2806)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCD1FF
RGB	220, 209, 255
RGB Percent	86%, 82%, 100%
CMY	0.1374, 0.1804, 0.0000
CMYK	0.14, 0.18, 0.00, 0.00
HSL	254°, 100%, 91%
HSV	254°, 18%, 100%
XYZ	70.3643, 68.0366, 104.0674
YIQ	217.5330, -8.2100, 16.6380

# Conversions

## Conversions Part 2

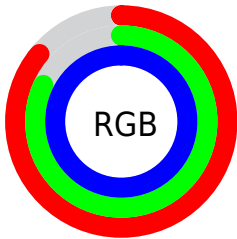
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	220, 209, 255
Decimal	14471679
CIE Lab	86.02, 12.55, -21.10
CIE LCh	86, 24.554, 300.748
Yxy	68.0366, 0.2902, 0.2806
Android (android.graphics.Color)	4292661759 (0xFFDCD1FF)
YUV	217.5330, 18.4712, 2.1636
Hunter-Lab	82.4843, 7.9242, -17.0650

# Details

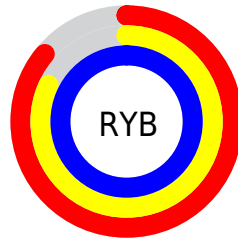
The Yxy color  $68.0366, 0.2902, 0.2806$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $95.3636, 0.3327, 0.3751$ , and the grayscale version is  $69.6447, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $35.5192, 0.2852, 0.2706$  is the 20% darker color. If you saturate the color by 10%, you get  $53.6526, 0.2752, 0.2501$ , and if you desaturate by 10%, it is  $84.7752, 0.3034, 0.3086$ .

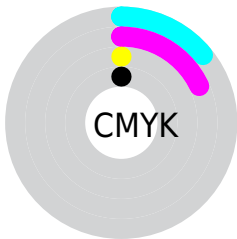
# Distribution



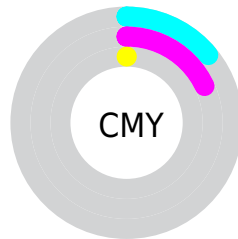
- Red (86%)
- Green (82%)
- Blue (100%)



- Red (86%)
- Yellow (82%)
- Blue (100%)



- Cyan (14%)
- Magenta (18%)
- Yellow (0%)
- Black (0%)



- Cyan (14%)
- Magenta (18%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.0366, 0.2902, 0.2806 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 68.0366, 0.2902, 0.2806 by changing the saturation by 10% instead.



68.0366, 0.2902,  
0.2806

68.0366, 0.2902,  
0.2806

453.6257, 0.3009,  
0.3026

49.9275, 0.2877,  
0.2757

116.4045, 0.2939,  
0.2881

35.3558, 0.2846,  
0.2697

147.4321, 0.2954,  
0.2911

23.9371, 0.2807,  
0.2622

183.5347, 0.2966,  
0.2936

15.2870, 0.2755,  
0.2525

225.0966, 0.2977,  
0.2959

9.0210, 0.2683,  
0.2397

272.5022, 0.2986,  
0.2979

4.7549, 0.2579,  
0.2219

326.1361, 0.2995,

2.1042, 0.2415,

0.2996

0.1957

386.3824, 0.3002,  
0.3012

0.6670, 0.2138,  
0.1510

0.0000, 0.0000,  
0.0000

68.0366, 0.2902,  
0.2806

68.0366, 0.2902,  
0.2806

53.6526, 0.2752,  
0.2501

84.7752, 0.3034,  
0.3086

41.5161, 0.2586,  
0.2175

100.0000, 0.3127,  
0.3290

31.5117, 0.2407,  
0.1840

23.5133, 0.2222,  
0.1514

■ 17.3817, 0.2041,  
0.1216

■ 12.9590, 0.1876,  
0.0968

■ 10.0603, 0.1738,  
0.0788

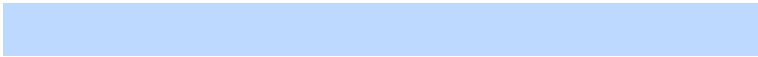
■ 8.4389, 0.1635,  
0.0681

■ 8.2053, 0.1619,  
0.0665

# Harmonies

## Analogous

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



68.0366, 0.2673, 0.2806



68.0366, 0.2902, 0.2806



68.0366, 0.3202, 0.2921

# Triad

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



68.0366, 0.2902, 0.2806



68.0366, 0.3723, 0.3613



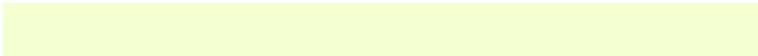
68.0366, 0.2764, 0.3454

# Complementary

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



68.0366, 0.2902, 0.2806



95.3636, 0.3327, 0.3751

# 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.



68.0366, 0.3031, 0.3705



68.0366, 0.2902, 0.2806



68.0366, 0.3590, 0.3785

# Square

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



68.0366, 0.2902, 0.2806



68.0366, 0.3688, 0.3372



68.0366, 0.3334, 0.3826



68.0366, 0.2596, 0.3165



# Rectangle

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



68.0366, 0.2902, 0.2806



68.0366, 0.3404, 0.3049



68.0366, 0.3334, 0.3826



68.0366, 0.2844, 0.3547

# Sweetspot

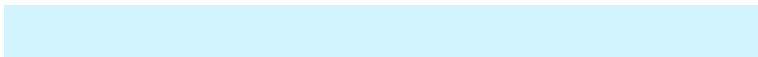
The Sweet Spot groups the original color and five complimentary colors.



68.0366, 0.2902, 0.2806



90.3377, 0.3071, 0.3165



85.6399, 0.2849, 0.3178



19.0560, 0.3062, 0.3147



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.



68.0366, 0.2902, 0.2806



62.0584, 0.2845, 0.2688



71.8331, 0.3061, 0.2829



17.5867, 0.3016, 0.3047



4.3439, 0.1632, 0.0672



0.4705, 0.1738, 0.0731



# Inverse Universe

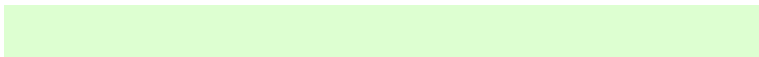
The Inverse Universe completely reimagines the original color for something new.



73.3993, 0.3224, 0.2944



68.4493, 0.3249, 0.2865



91.5390, 0.3181, 0.3773



18.2220, 0.3175, 0.3111



13.1736, 0.3924, 0.1935



1.2996, 0.3825, 0.1881



# Previews

## White Background



This preview shows how the Yxy color 68.0366, 0.2902, 0.2806 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

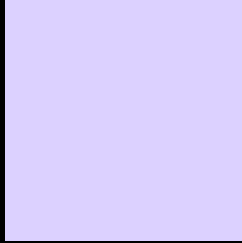
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.0366, 0.2902, 0.2806 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

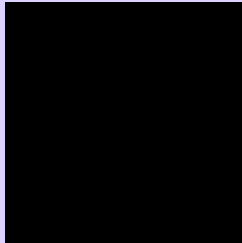
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.0366, 0.2902, 0.2806**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.0366, 0.2902, 0.2806.

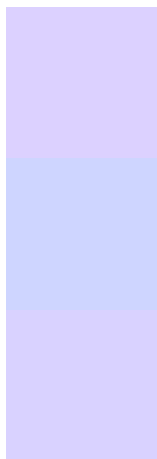


This preview shows how white text looks on a background with the Yxy color 68.0366, 0.2902, 0.2806.

# 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

68.0366, 0.2902, 0.2806

### Protanopia

67.9303, 0.2811, 0.2838

### Deuteranopia

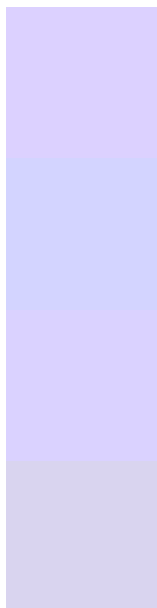
68.0649, 0.2882, 0.2814



## Tritanopia

67.9006, 0.3035, 0.3104

# Trichromacy



## Original Color

68.0366, 0.2902, 0.2806

## Protanomaly

68.1559, 0.2843, 0.2831

## Deuteranomaly

68.2186, 0.2889, 0.2815

## Tritanomaly

68.0707, 0.2984, 0.2998

# Monochromacy



## Original Color

68.0366, 0.2902, 0.2806

## Achromatopsia

70.1102, 0.3127, 0.3290

## Achromatomaly

69.4305, 0.3049, 0.3116

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  68.0366, 0.2902, 0.2806 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(220, 209, 255)` looks like.

```
.text, #text, p{  
    color:rgb(220, 209, 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(220, 209, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 209, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 68.0366, 0.2902, 0.2806 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(220, 209, 255) }
```

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

```
.border{ border-color:rgb(220, 209, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 209, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 209, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 209, 255);  
box-shadow:4px 4px 4px 4px rgb(220, 209,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.0366, 0.2902, 0.2806 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 209, 255) }
```

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

```
.background{ background-color: rgb(220,  
209, 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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