

# Converting Colors

$Y_{xy}(67.5983, 0.2934, 0.2848)$

Have a look what the booklet for  
Yxy(67.5983, 0.2934, 0.2848)  
contains.

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# Color

**Yxy(67.7187, 0.2934, 0.2856)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCD1FA
RGB	220, 209, 250
RGB Percent	86%, 82%, 98%
CMY	0.1372, 0.1804, 0.0197
CMYK	0.12, 0.16, 0.00, 0.02
HSL	256°, 80%, 90%
HSV	256°, 16%, 98%
XYZ	69.5682, 67.7187, 99.8234
YIQ	216.9630, -6.6050, 15.0830

# Conversions

## Conversions Part 2

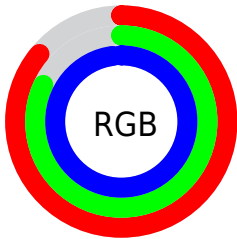
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	220, 209, 250
Decimal	14471674
CIE Lab	85.87, 11.53, -18.66
CIE LCh	86, 21.934, 301.704
Yxy	67.7187, 0.2934, 0.2856
Android (android.graphics.Color)	4292661754 (0xFFDCD1FA)
YUV	216.9630, 16.2872, 2.6634
Hunter-Lab	82.2914, 6.8919, -14.3177

# Details

The Yxy color  $67.7187, 0.2934, 0.2856$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $91.3045, 0.3301, 0.3708$ , and the grayscale version is  $69.2525, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $35.2923, 0.2892, 0.2769$  is the 20% darker color. If you saturate the color by 10%, you get  $53.7031, 0.2793, 0.2556$ , and if you desaturate by 10%, it is  $83.9765, 0.3057, 0.3130$ .

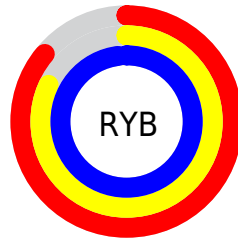
# Distribution



Red (86%)

Green (82%)

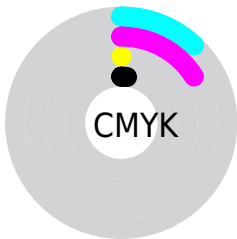
Blue (98%)



Red (86%)

Yellow (82%)

Blue (98%)

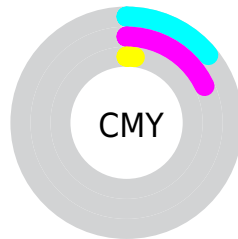


Cyan (12%)

Magenta (16%)

Yellow (0%)

Black (2%)



Cyan (14%)

Magenta (18%)

Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.7187, 0.2934, 0.2856 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 67.7187, 0.2934, 0.2856 by changing the saturation by 10% instead.



67.7187, 0.2934,  
0.2856

67.7187, 0.2934,  
0.2856

452.4987, 0.3026,  
0.3054

49.6689, 0.2913,  
0.2812

115.9496, 0.2966,  
0.2924

35.1504, 0.2886,  
0.2757

146.8996, 0.2979,  
0.2951

23.7788, 0.2852,  
0.2689

182.9184, 0.2989,  
0.2974

15.1696, 0.2806,  
0.2601

224.3904, 0.2999,  
0.2994

8.9385, 0.2744,  
0.2483

271.7000, 0.3007,  
0.3012

4.7011, 0.2652,  
0.2318

325.2317, 0.3014,

2.0730, 0.2507,

0.3027

0.2071

385.3698, 0.3020,  
0.3041

0.6494, 0.2258,  
0.1629

0.0000, 0.0000,  
0.0000

67.7187, 0.2934,  
0.2856

67.7187, 0.2934,  
0.2856

53.7031, 0.2793,  
0.2556

83.9765, 0.3057,  
0.3130

41.8216, 0.2635,  
0.2236

99.6804, 0.3156,  
0.3338

31.9700, 0.2464,  
0.1906

24.0318, 0.2285,  
0.1581

■ 17.8782, 0.2107,  
0.1281

■ 13.3643, 0.1940,  
0.1026

■ 10.3214, 0.1796,  
0.0834

■ 8.5410, 0.1683,  
0.0714

■ 8.0976, 0.1650,  
0.0683

# Harmonies

## Analogous

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



67.7187, 0.2724, 0.2854



67.7187, 0.2934, 0.2856



67.7187, 0.3204, 0.2963

# Triad

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



67.7187, 0.2934, 0.2856



67.7187, 0.3658, 0.3588



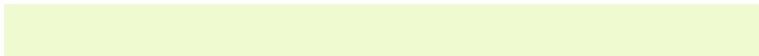
67.7187, 0.2795, 0.3429

# Complementary

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



67.7187, 0.2934, 0.2856



91.3045, 0.3301, 0.3708

# 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.



67.7187, 0.3034, 0.3653



67.7187, 0.2934, 0.2856



67.7187, 0.3536, 0.3737

# Square

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



67.7187, 0.2934, 0.2856



67.7187, 0.3632, 0.3373



67.7187, 0.3305, 0.3767



67.7187, 0.2647, 0.3173



# Rectangle

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



67.7187, 0.2934, 0.2856



67.7187, 0.3383, 0.3080



67.7187, 0.3305, 0.3767



67.7187, 0.2867, 0.3512

# Sweetspot

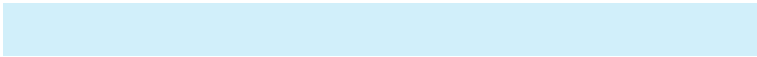
The Sweet Spot groups the original color and five complimentary colors.



67.7215, 0.2934, 0.2856



90.4069, 0.3073, 0.3165



82.2184, 0.2874, 0.3174



19.0728, 0.3065, 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.



67.7215, 0.2934, 0.2856



65.2637, 0.2885, 0.2750



71.1029, 0.3078, 0.2874



16.8684, 0.3021, 0.3048



4.3561, 0.1664, 0.0690



0.4531, 0.1782, 0.0756



# Inverse Universe

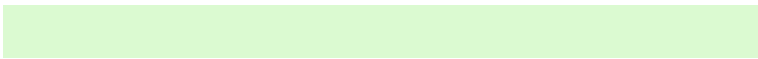
The Inverse Universe completely reimagines the original color for something new.



72.1541, 0.3222, 0.2989



70.8150, 0.3247, 0.2920



87.9510, 0.3167, 0.3725



17.4404, 0.3179, 0.3118



12.6166, 0.4031, 0.1994



1.1861, 0.3910, 0.1928



# Previews

## White Background



This preview shows how the Yxy color 67.7187, 0.2934, 0.2856 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

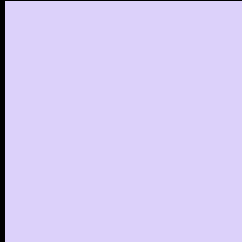
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.7187, 0.2934, 0.2856 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

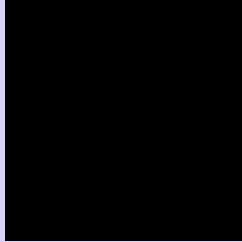
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.7187, 0.2934, 0.2856**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.7187, 0.2934, 0.2856.

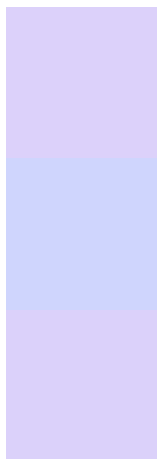


This preview shows how white text looks on a background with the Yxy color 67.7187, 0.2934, 0.2856.

# 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

67.7187, 0.2934, 0.2856

### Protanopia

67.9457, 0.2829, 0.2858

### Deuteranopia

67.5631, 0.2927, 0.2855



## Tritanopia

67.9974, 0.3049, 0.3115

# Trichromacy



## Original Color

67.7187, 0.2934, 0.2856

## Protanomaly

68.1123, 0.2868, 0.2862

## Deuteranomaly

67.5631, 0.2927, 0.2855

## Tritanomaly

68.1068, 0.3004, 0.3020

# Monochromacy



## Original Color

67.7187, 0.2934, 0.2856

## Achromatopsia

69.3872, 0.3127, 0.3290

## Achromatomaly

68.6557, 0.3056, 0.3126

# CSS Examples

## Text

The CSS property to change the color of the text to  $Y_{xy}$  67.7187, 0.2934, 0.2856 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, 250)` looks like.

```
.text, #text, p{  
    color:rgb(220, 209, 250)  
}
```

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, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 209, 250) }
```

## Border

The CSS property to change the border of an element to Yxy 67.7187, 0.2934, 0.2856 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, 250) }
```

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

```
.border{ border-color:rgb(220, 209, 250) }
```

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, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 209, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 209, 250);  
box-shadow:4px 4px 4px 4px rgb(220, 209,  
250) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.7187, 0.2934, 0.2856 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, 250) }
```

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

```
.background{ background-color: rgb(220,  
209, 250) }
```

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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