

# Converting Colors

$Y_{xy}(71.2048, 0.2961, 0.2796)$

Have a look what the booklet for  
Yxy(71.2048, 0.2961, 0.2796)  
contains.

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# Color

**Yxy(70.9643, 0.2985, 0.2839)**

# Conversions

## Conversions Part 1

| Format      | Color                      |
|-------------|----------------------------|
| Hex         | E8D3FF                     |
| RGB         | 232, 211, 255              |
| RGB Percent | 91%, 83%, 100%             |
| CMY         | 0.0904, 0.1725, 0.0000     |
| CMYK        | 0.09, 0.17, 0.00, 0.00     |
| HSL         | 269°, 100%, 91%            |
| HSV         | 269°, 17%, 100%            |
| XYZ         | 74.6137, 70.9643, 104.3843 |
| YIQ         | 222.2950, -1.6080, 18.1360 |

# Conversions

## Conversions Part 2

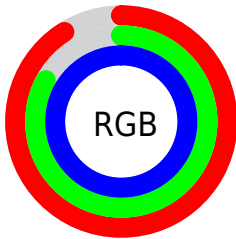
| Format                              | Color                         |
|-------------------------------------|-------------------------------|
| R <sub>Y</sub> B                    | 232, 211, 255                 |
| Decimal                             | 15258623                      |
| CIE Lab                             | 87.47, 15.26, -18.81          |
| CIE LCh                             | 87, 24.226, 309.049           |
| Yxy                                 | 70.9643, 0.2985,<br>0.2839    |
| Android<br>(android.graphics.Color) | 4293448703<br>(0xFFE8D3FF)    |
| YUV                                 | 222.2950, 16.1236,<br>8.5113  |
| Hunter-Lab                          | 84.2403, 10.6814,<br>-14.4995 |

# Details

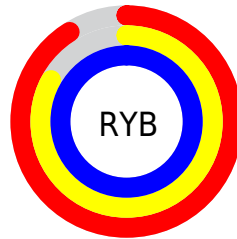
The Yxy color  $70.9643, 0.2985, 0.2839$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $93.7270, 0.3251, 0.3740$ , and the grayscale version is  $73.1486, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $37.0843, 0.2950, 0.2736$  is the 20% darker color. If you saturate the color by 10%, you get  $57.1328, 0.2884, 0.2551$ , and if you desaturate by 10%, it is  $86.9795, 0.3072, 0.3109$ .

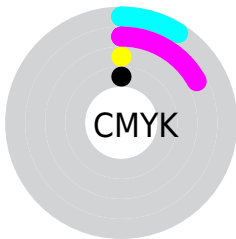
# Distribution



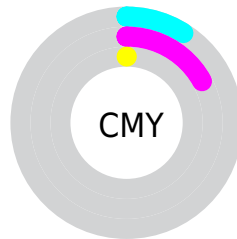
- Red (91%)
- Green (83%)
- Blue (100%)



- Red (91%)
- Yellow (83%)
- Blue (100%)



- Cyan (9%)
- Magenta (17%)
- Yellow (0%)
- Black (0%)




- Cyan (9%)
- Magenta (17%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.9643, 0.2985, 0.2839 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 70.9643, 0.2985, 0.2839 by changing the saturation by 10% instead.



 70.9643, 0.2985,  
0.2839

 70.9643, 0.2985,  
0.2839

463.9286, 0.3053,  
0.3042

 52.3131, 0.2969,  
0.2794

120.5829, 0.3009,  
0.2908

 37.2547, 0.2949,  
0.2739


152.3190, 0.3018,  
0.2936

 25.4047, 0.2923,  
0.2671


189.1856, 0.3026,  
0.2959

 16.3789, 0.2890,  
0.2583

231.5670, 0.3033,  
0.2980

 9.7926, 0.2843,  
0.2467

279.8476, 0.3039,  
0.2998

 5.2617, 0.2774,  
0.2307

334.4118, 0.3044,

 2.4016, 0.2664,

0.3014

0.2073

395.6440, 0.3049,  
0.3029

0.8267, 0.2468,  
0.1701

0.0000, 0.0950,  
0.0000

70.9643, 0.2985,  
0.2839

70.9643, 0.2985,  
0.2839

57.1328, 0.2884,  
0.2551

86.9795, 0.3072,  
0.3109

45.3808, 0.2770,  
0.2250

100.0000, 0.3127,  
0.3290

35.6041, 0.2644,  
0.1947

27.6873, 0.2509,  
0.1654

■ 21.5021, 0.2369,  
0.1387

■ 16.9035, 0.2231,  
0.1161

■ 13.7215, 0.2102,  
0.0990

■ 11.7379, 0.1988,  
0.0877

■ 11.3136, 0.1958,  
0.0852

# Harmonies

## Analogous

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



70.9643, 0.2736, 0.2806



70.9643, 0.2985, 0.2839



70.9643, 0.3284, 0.2978

# Triad

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



70.9643, 0.2985, 0.2839



70.9643, 0.3686, 0.3661



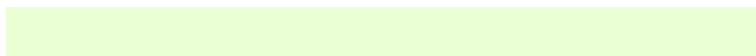
70.9643, 0.2716, 0.3372

# Complementary

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



70.9643, 0.2985, 0.2839



93.7270, 0.3251, 0.3740

# 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.



70.9643, 0.2956, 0.3635



70.9643, 0.2985, 0.2839



70.9643, 0.3518, 0.3798

# Square

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



70.9643, 0.2985, 0.2839



70.9643, 0.3699, 0.3438



70.9643, 0.3249, 0.3794



70.9643, 0.2587, 0.3098



# Rectangle

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



70.9643, 0.2985, 0.2839



70.9643, 0.3470, 0.3115



70.9643, 0.3249, 0.3794



70.9643, 0.2786, 0.3466

# Sweetspot

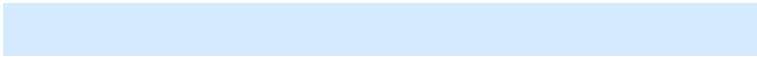
The Sweet Spot groups the original color and five complimentary colors.



70.9663, 0.2985, 0.2839



90.8882, 0.3090, 0.3166



80.1883, 0.2855, 0.3074



19.1896, 0.3084, 0.3148



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.



70.9663, 0.2985, 0.2839



65.5251, 0.2949, 0.2733



74.8008, 0.3137, 0.2860



17.8018, 0.3054, 0.3050



5.9991, 0.1975, 0.0862



0.6486, 0.2099, 0.0930



# Inverse Universe

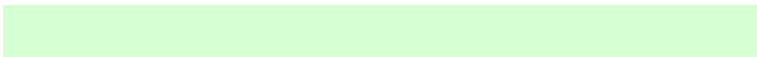
The Inverse Universe completely reimagines the original color for something new.



73.8019, 0.3293, 0.3060



68.9289, 0.3336, 0.3008



90.2933, 0.3114, 0.3759



18.1461, 0.3212, 0.3166



12.0328, 0.4863, 0.2452

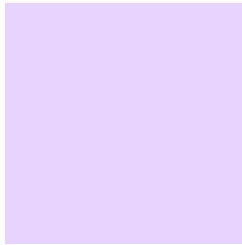


1.1937, 0.4622, 0.2320



# Previews

## White Background



This preview shows how the Yxy color 70.9643, 0.2985, 0.2839 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

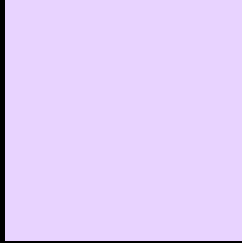
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 70.9643, 0.2985, 0.2839 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

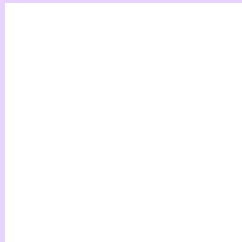
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 70.9643, 0.2985, 0.2839**

## Background



This preview shows how black text looks on a background with the Yxy color 70.9643, 0.2985, 0.2839.

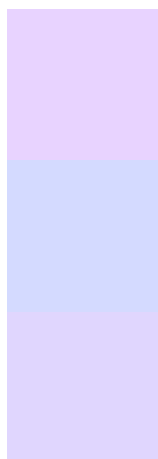


This preview shows how white text looks on a background with the Yxy color 70.9643, 0.2985, 0.2839.

# 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

70.9643, 0.2985, 0.2839

### Protanopia

71.3599, 0.2853, 0.2897

### Deuteranopia

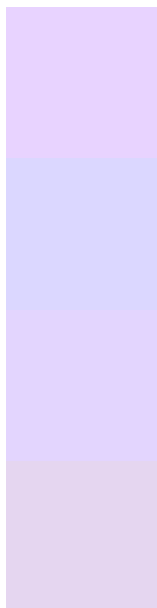
71.0962, 0.2937, 0.2873



## Tritanopia

70.9211, 0.3107, 0.3109

# Trichromacy



## Original Color

70.9643, 0.2985, 0.2839

## Protanomaly

70.8809, 0.2898, 0.2870

## Deuteranomaly

71.0752, 0.2957, 0.2865

## Tritanomaly

71.0424, 0.3061, 0.3017

# Monochromacy



## Original Color

70.9643, 0.2985, 0.2839

## Achromatopsia

73.0461, 0.3127, 0.3290

## Achromatomaly

72.2521, 0.3078, 0.3120

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.9643, 0.2985, 0.2839 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(232, 211, 255)` looks like.

```
.text, #text, p{  
    color:rgb(232, 211, 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(232, 211, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 211, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 70.9643, 0.2985, 0.2839 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(232, 211, 255) }
```

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

```
.border{ border-color:rgb(232, 211, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 211, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 211, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 211, 255);  
box-shadow:4px 4px 4px 4px rgb(232, 211,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.9643, 0.2985, 0.2839 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 211, 255) }
```

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

```
.background{ background-color: rgb(232,  
211, 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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