

# Converting Colors

$Y_{xy}(70.0343, 0.2769, 0.2457)$

Have a look what the booklet for  
Yxy(70.0343, 0.2769, 0.2457)  
contains.

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# Color

**Yxy(67.3947, 0.2978, 0.2765)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E7CCFF
RGB	231, 204, 255
RGB Percent	91%, 80%, 100%
CMY	0.0942, 0.1999, 0.0001
CMYK	0.09, 0.20, 0.00, 0.00
HSL	272°, 100%, 90%
HSV	272°, 20%, 100%
XYZ	72.5864, 67.3947, 103.7610
YIQ	217.8870, -0.2790, 21.5850

# Conversions

## Conversions Part 2

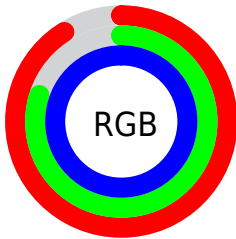
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	231, 204, 255
Decimal	15191295
CIE <sub>Lab</sub>	85.70, 18.65, -21.46
CIE <sub>LCh</sub>	86, 28.436, 310.992
Yxy	67.3947, 0.2978, 0.2765
Android (android.graphics.Color)	4293381375 (0xFFE7CCFF)
YUV	217.8870, 18.2967, 11.5001
Hunter-Lab	82.0943, 14.1618, -17.4721

# Details

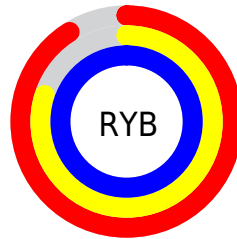
The Yxy color  $67.3947, 0.2978, 0.2765$  is a light color, and the websafe version is hex  $\text{FFCCFF}$ . A complement of this color would be  $92.3553, 0.3252, 0.3819$ , and the grayscale version is  $69.9001, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $35.0039, 0.2940, 0.2653$  is the 20% darker color. If you saturate the color by 10%, you get  $54.3220, 0.2885, 0.2477$ , and if you desaturate by 10%, it is  $82.5941, 0.3059, 0.3038$ .

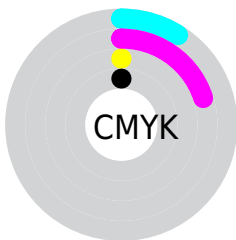
# Distribution



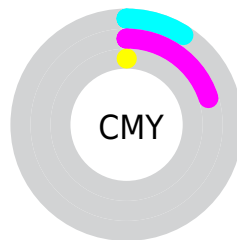
- Red (91%)
- Green (80%)
- Blue (100%)



- Red (91%)
- Yellow (80%)
- Blue (100%)



- Cyan (9%)
- Magenta (20%)
- Yellow (0%)
- Black (0%)




- Cyan (9%)
- Magenta (20%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.3947, 0.2978, 0.2765 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 67.3947, 0.2978, 0.2765 by changing the saturation by 10% instead.




 67.3947, 0.2978,  
0.2765

 67.3947, 0.2978,  
0.2765

451.3484, 0.3051,  
0.3002

 49.4055, 0.2961,  
0.2712


115.4858, 0.3004,  
0.2846

 34.9412, 0.2939,  
0.2648

146.3564, 0.3014,  
0.2878

 23.6176, 0.2911,  
0.2569


182.2897, 0.3022,  
0.2905

 15.0502, 0.2873,  
0.2466

223.6699, 0.3029,  
0.2929

 8.8546, 0.2820,  
0.2331

270.8815, 0.3036,  
0.2951

 4.6465, 0.2742,  
0.2145

324.3088, 0.3041,

 2.0414, 0.2615,

0.2970

0.1874

384.3363, 0.3046,  
0.2987

0.6313, 0.2395,  
0.1408

0.0000, 0.0032,  
0.0000

67.3947, 0.2978,  
0.2765

67.3947, 0.2978,  
0.2765

54.3220, 0.2885,  
0.2477

82.5941, 0.3059,  
0.3038

43.2684, 0.2780,  
0.2180

99.9956, 0.3127,  
0.3290

34.1293, 0.2663,  
0.1886

99.9978, 0.3127,  
0.3290

26.7873, 0.2540,  
0.1608

■ 21.1116, 0.2412,  
0.1360

■ 16.9524, 0.2287,  
0.1157

■ 14.1321, 0.2169,  
0.1008

■ 12.3624, 0.2062,  
0.0910

■ 12.3595, 0.2062,  
0.0910

# Harmonies

## Analogous

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



67.3947, 0.2678, 0.2716



67.3947, 0.2978, 0.2765



67.3947, 0.3335, 0.2935

# Triad

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



67.3947, 0.2978, 0.2765



67.3947, 0.3786, 0.3741



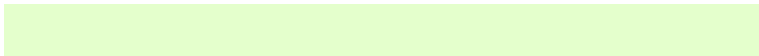
67.3947, 0.2624, 0.3363

# Complementary

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



67.3947, 0.2978, 0.2765



92.3553, 0.3252, 0.3819

# 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.



67.3947, 0.2899, 0.3688



67.3947, 0.2978, 0.2765



67.3947, 0.3573, 0.3902

# Square

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



67.3947, 0.2978, 0.2765



67.3947, 0.3817, 0.3479



67.3947, 0.3246, 0.3891



67.3947, 0.2483, 0.3038



# Rectangle

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



67.3947, 0.2978, 0.2765



67.3947, 0.3556, 0.3099



67.3947, 0.3246, 0.3891



67.3947, 0.2703, 0.3478

# Sweetspot

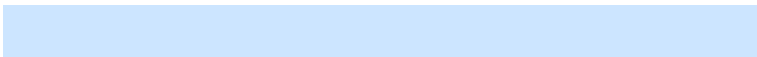
The Sweet Spot groups the original color and five complimentary colors.



67.3975, 0.2978, 0.2765



89.2826, 0.3087, 0.3141



75.8999, 0.2809, 0.3009



18.8710, 0.3083, 0.3124



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.



67.3975, 0.2978, 0.2765



61.9121, 0.2942, 0.2651



71.6122, 0.3156, 0.2800



17.8507, 0.3062, 0.3050



6.5497, 0.2079, 0.0919



0.7028, 0.2198, 0.0985



# Inverse Universe

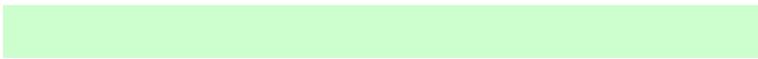
The Inverse Universe completely reimagines the original color for something new.



70.0511, 0.3344, 0.3049



65.0620, 0.3398, 0.2998



88.7402, 0.3096, 0.3834



18.1295, 0.3220, 0.3179



11.8482, 0.5088, 0.2576

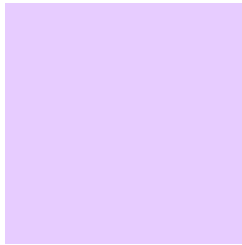


1.1755, 0.4818, 0.2428



# Previews

## White Background



This preview shows how the Yxy color 67.3947, 0.2978, 0.2765 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

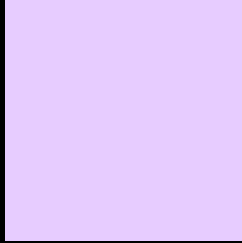
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.3947, 0.2978, 0.2765 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

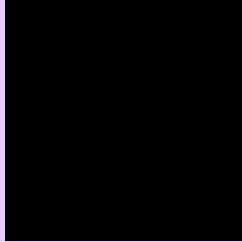
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

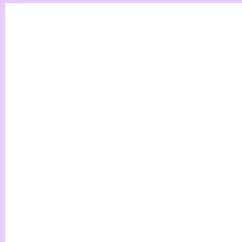
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 67.3947, 0.2978, 0.2765**

## Background



This preview shows how black text looks on a background with the Yxy color 67.3947, 0.2978, 0.2765.

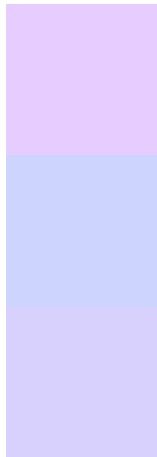


This preview shows how white text looks on a background with the Yxy color 67.3947, 0.2978, 0.2765.

# 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

67.3947, 0.2978, 0.2765

### Protanopia

67.7876, 0.2805, 0.2837

### Deuteranopia

67.3556, 0.2881, 0.2812



## Tritanopia

67.2607, 0.3136, 0.3107

# Trichromacy



## Original Color

67.3947, 0.2978, 0.2765

## Protanomaly

67.6093, 0.2862, 0.2812

## Deuteranomaly

67.1536, 0.2915, 0.2796

## Tritanomaly

67.2341, 0.3076, 0.2972

# Monochromacy



## Original Color

67.3947, 0.2978, 0.2765

## Achromatopsia

70.1102, 0.3127, 0.3290

## Achromatomaly

69.0460, 0.3078, 0.3096

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.3947, 0.2978, 0.2765 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(231, 204, 255)` looks like.

```
.text, #text, p{  
    color:rgb(231, 204, 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(231, 204, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 204, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 67.3947, 0.2978, 0.2765 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(231, 204, 255) }
```

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

```
.border{ border-color:rgb(231, 204, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 204, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 204, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 204, 255);  
box-shadow:4px 4px 4px 4px rgb(231, 204,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.3947, 0.2978, 0.2765 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 204, 255) }
```

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

```
.background{ background-color: rgb(231,  
204, 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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