

# Converting Colors

$Y_{xy}(71.1816, 0.2911, 0.2650)$

Have a look what the booklet for  
Yxy(71.1816, 0.2911, 0.2650)  
contains.

<b>Yxy(69.8502, 0.3020, 0.2802)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(69.8502, 0.3020, 0.2802)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EDCFFF
RGB	237, 207, 255
RGB Percent	93%, 81%, 100%
CMY	0.0707, 0.1882, 0.0000
CMYK	0.07, 0.19, 0.00, 0.00
HSL	277°, 100%, 91%
HSV	277°, 19%, 100%
XYZ	75.2847, 69.8502, 104.1521
YIQ	221.4420, 2.4720, 21.2880

# Conversions

## Conversions Part 2

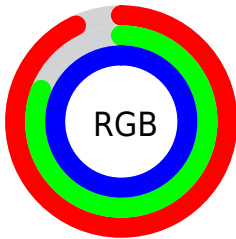
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	237, 207, 255
Decimal	15585279
CIE <sub>Lab</sub>	86.92, 18.99, -19.61
CIE <sub>LCh</sub>	87, 27.293, 314.080
Yxy	69.8502, 0.3020, 0.2802
Android (android.graphics.Color)	4293775359 (0xFFEDCFFF)
YUV	221.4420, 16.5441, 13.6444
Hunter-Lab	83.5764, 14.5319, -15.3831

# Details

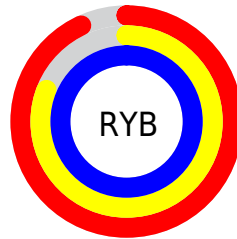
The Yxy color  $69.8502, 0.3020, 0.2802$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $92.0397, 0.3216, 0.3791$ , and the grayscale version is  $72.5110, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $36.6834, 0.2995, 0.2704$  is the 20% darker color. If you saturate the color by 10%, you get  $56.8707, 0.2949, 0.2523$ , and if you desaturate by 10%, it is  $84.9144, 0.3081, 0.3069$ .

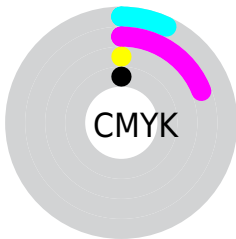
# Distribution



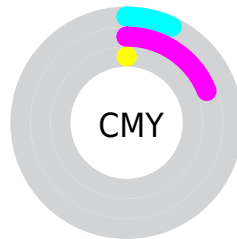
- Red (93%)
- Green (81%)
- Blue (100%)



- Red (93%)
- Yellow (81%)
- Blue (100%)



- Cyan (7%)
- Magenta (19%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (19%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 69.8502, 0.3020, 0.2802 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 69.8502, 0.3020, 0.2802 by changing the saturation by 10% instead.




 69.8502, 0.3020,  
0.2802

 69.8502, 0.3020,  
0.2802


460.0239, 0.3073,  
0.3021

 51.4044, 0.3007,  
0.2754


118.9951, 0.3039,  
0.2877

 36.5306, 0.2991,  
0.2695


150.4630, 0.3046,  
0.2906

 24.8442, 0.2971,  
0.2621


187.0404, 0.3052,  
0.2932

 15.9610, 0.2943,  
0.2527

229.1117, 0.3057,  
0.2954

 9.4966, 0.2904,  
0.2404

277.0614, 0.3062,  
0.2974

 5.0665, 0.2845,  
0.2233

331.2736, 0.3066,

 2.2863, 0.2750,

0.2991

0.1985

392.1330, 0.3070,  
0.3007

0.7665, 0.2577,  
0.1589

0.0000, 0.1226,  
0.0000

69.8502, 0.3020,  
0.2802

69.8502, 0.3020,  
0.2802

56.8707, 0.2949,  
0.2523

84.9144, 0.3081,  
0.3069

45.8770, 0.2868,  
0.2237

100.0000, 0.3127,  
0.3290

36.7649, 0.2777,  
0.1957

29.4197, 0.2679,  
0.1693

■ 23.7136, 0.2576,  
0.1459

■ 19.5013, 0.2473,  
0.1267

■ 16.6107, 0.2373,  
0.1125

■ 14.7927, 0.2280,  
0.1033

■ 14.6109, 0.2269,  
0.1024

# Harmonies

## Analogous

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



69.8502, 0.2726, 0.2743



69.8502, 0.3020, 0.2802



69.8502, 0.3359, 0.2975

# Triad

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



69.8502, 0.3020, 0.2802



69.8502, 0.3739, 0.3741



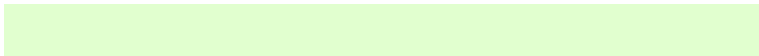
69.8502, 0.2629, 0.3327

# Complementary

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



69.8502, 0.3020, 0.2802



92.0397, 0.3216, 0.3791

# 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.



69.8502, 0.2880, 0.3639



69.8502, 0.3020, 0.2802



69.8502, 0.3522, 0.3877

# Square

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



69.8502, 0.3020, 0.2802



69.8502, 0.3787, 0.3500



69.8502, 0.3206, 0.3846



69.8502, 0.2510, 0.3024



# Rectangle

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



69.8502, 0.3020, 0.2802



69.8502, 0.3563, 0.3135



69.8502, 0.3206, 0.3846



69.8502, 0.2700, 0.3435

# Sweetspot

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



69.8508, 0.3020, 0.2802



89.5497, 0.3097, 0.3141



74.5580, 0.2826, 0.2975



18.9341, 0.3093, 0.3125



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.



69.8508, 0.3020, 0.2802



64.1757, 0.2992, 0.2687



72.7560, 0.3188, 0.2873



17.9395, 0.3077, 0.3051



7.7226, 0.2284, 0.1032



0.8144, 0.2388, 0.1089



# Inverse Universe

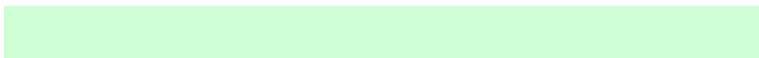
The Inverse Universe completely reimagines the original color for something new.



71.3298, 0.3363, 0.3109



65.9801, 0.3428, 0.3066



89.5714, 0.3072, 0.3746



18.1000, 0.3235, 0.3201



11.5748, 0.5482, 0.2794



1.1474, 0.5173, 0.2623



# Previews

## White Background



This preview shows how the Yxy color 69.8502, 0.3020, 0.2802 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

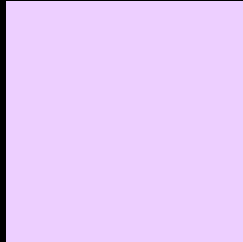
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 69.8502, 0.3020, 0.2802 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

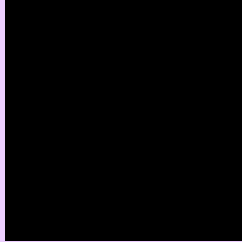
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

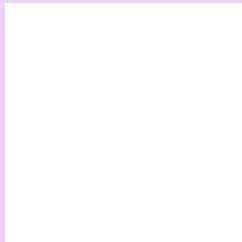
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 69.8502, 0.3020, 0.2802**

## **Background**



This preview shows how black text looks on a background with the Yxy color 69.8502, 0.3020, 0.2802.

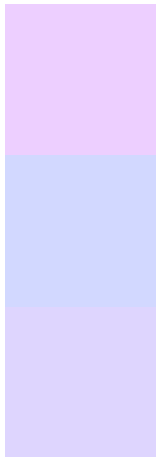


This preview shows how white text looks on a background with the Yxy color 69.8502, 0.3020, 0.2802.

# 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

69.8502, 0.3020, 0.2802

### Protanopia

70.0334, 0.2839, 0.2874

### Deuteranopia

70.2739, 0.2923, 0.2861



## Tritanopia

70.0120, 0.3172, 0.3121

# Trichromacy



## Original Color

69.8502, 0.3020, 0.2802

## Protanomaly

70.0241, 0.2904, 0.2849

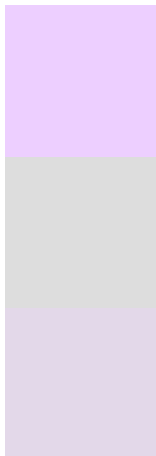
## Deuteranomaly

70.0752, 0.2957, 0.2844

## Tritanomaly

69.7587, 0.3112, 0.2998

# Monochromacy



## Original Color

69.8502, 0.3020, 0.2802

## Achromatopsia

72.3055, 0.3127, 0.3290

## Achromatomaly

71.3258, 0.3093, 0.3109

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 69.8502, 0.3020, 0.2802 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(237, 207, 255)` looks like.

```
.text, #text, p{  
    color:rgb(237, 207, 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(237, 207, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 207, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 69.8502, 0.3020, 0.2802 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(237, 207, 255) }
```

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

```
.border{ border-color:rgb(237, 207, 255) }
```

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

Here you see how a box with a 4 pixel rgb(237, 207, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 207, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 207, 255);  
box-shadow:4px 4px 4px 4px rgb(237, 207,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 69.8502, 0.3020, 0.2802 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 207, 255) }
```

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

```
.background{ background-color: rgb(237,  
207, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor