

# Converting Colors

$Y_{xy}(41.8877, 0.3025, 0.2067)$

Have a look what the booklet for  
Yxy(41.8877, 0.3025, 0.2067)  
contains.

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# Color

**Yxy(41.9996, 0.3025, 0.2071)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED85FF
RGB	237, 133, 255
RGB Percent	93%, 52%, 100%
CMY	0.0708, 0.4783, 0.0001
CMYK	0.07, 0.48, 0.00, 0.00
HSL	291°, 100%, 76%
HSV	291°, 48%, 100%
XYZ	61.3466, 41.9996, 99.4525
YIQ	178.0040, 22.8220, 59.9900

# Conversions

## Conversions Part 2

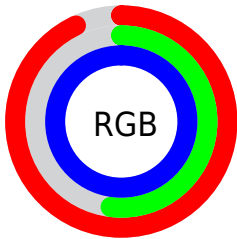
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	237, 133, 255
Decimal	15566335
CIE Lab	70.87, 57.66, -44.27
CIE LCh	71, 72.697, 322.482
Yxy	41.9996, 0.3025, 0.2071
Android (android.graphics.Color)	4293756415 (0xFFED85FF)
YUV	178.0040, 37.9590, 51.7395
Hunter-Lab	64.8071, 55.5562, -45.6210

# Details

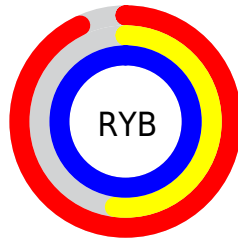
The Yxy color **41.9996, 0.3025, 0.2071** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **79.7779, 0.3152, 0.4767**, and the grayscale version is **44.3135, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.8752, 0.3157, 0.2644**, and **19.2529, 0.2970, 0.1811** is the 20% darker color. If you saturate the color by 10%, you get **35.2029, 0.2992, 0.1847**, and if you desaturate by 10%, it is **50.5078, 0.3054, 0.2318**.

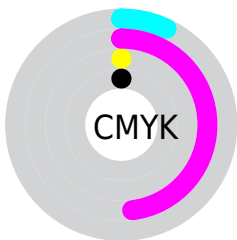
# Distribution



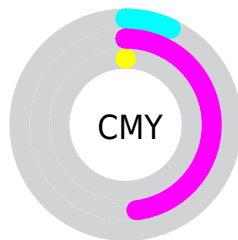
- Red (93%)
- Green (52%)
- Blue (100%)



- Red (93%)
- Yellow (52%)
- Blue (100%)



- Cyan (7%)
- Magenta (48%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (48%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.9996, 0.3025, 0.2071 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 41.9996, 0.3025, 0.2071 by changing the saturation by 10% instead.





 41.9996, 0.3025,  
0.2071


 41.9996, 0.3025,  
0.2071


354.4813, 0.3098,  
0.2619


 29.1010, 0.3002,  
0.1952


 78.1990, 0.3055,  
0.2257

 19.1572, 0.2971,  
0.1809


 102.2686, 0.3066,  
0.2330

 11.7839, 0.2926,  
0.1634


 130.8306, 0.3074,  
0.2394

 6.5967, 0.2861,  
0.1417

164.2695, 0.3081,  
0.2450

 3.2112, 0.2758,  
0.1147

202.9696, 0.3086,  
0.2500

 1.2430, 0.2589,  
0.0811

247.3153, 0.3091,

 0.0964, 0.2355,

0.2544

0.0135

297.6911, 0.3095,  
0.2584

0.0000, 0.1567,  
0.0000

0.0000, 0.0000,  
0.0000

41.9996, 0.3025,  
0.2071

41.9996, 0.3025,  
0.2071

35.2029, 0.2992,  
0.1847

50.5078, 0.3054,  
0.2318

29.9874, 0.2956,  
0.1656

60.8344, 0.3079,  
0.2578

26.2132, 0.2918,  
0.1507

73.0837, 0.3100,  
0.2840

23.7128, 0.2878,  
0.1404

87.3508, 0.3117,  
0.3097

■ 22.2628, 0.2840,  
0.1343

99.9979, 0.3127,  
0.3290

■ 22.0157, 0.2831,  
0.1333

# Harmonies

## Analogous

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



41.9996, 0.2147, 0.1822



41.9996, 0.3025, 0.2071



41.9996, 0.4110, 0.2550

# Triad

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



41.9996, 0.3025, 0.2071



41.9996, 0.4708, 0.4594



41.9996, 0.1573, 0.2994

# Complementary

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



41.9996, 0.3025, 0.2071



79.7779, 0.3152, 0.4767

# 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.



41.9996, 0.2090, 0.4176



41.9996, 0.3025, 0.2071



41.9996, 0.3894, 0.5163

# Square

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



41.9996, 0.3025, 0.2071



41.9996, 0.5147, 0.3872



41.9996, 0.2942, 0.5112



41.9996, 0.1434, 0.2201



# Rectangle

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



41.9996, 0.3025, 0.2071



41.9996, 0.4732, 0.2958



41.9996, 0.2942, 0.5112



41.9996, 0.1701, 0.3362

# Sweetspot

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



42.0014, 0.3025, 0.2071



78.3131, 0.3107, 0.2939



34.4479, 0.2252, 0.1997



16.1247, 0.3103, 0.2883



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.



42.0014, 0.3025, 0.2071



35.7091, 0.2995, 0.1864



42.8087, 0.3581, 0.2491



18.1564, 0.3114, 0.3054



11.5588, 0.2838, 0.1337



1.1608, 0.2882, 0.1361



# Inverse Universe

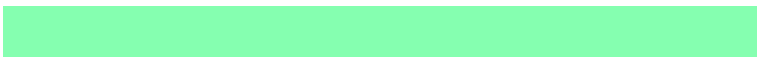
The Inverse Universe completely reimagines the original color for something new.



40.2766, 0.4258, 0.3106



33.9785, 0.4615, 0.3082



79.6122, 0.2857, 0.4272



18.0308, 0.3271, 0.3255



11.1939, 0.6203, 0.3191



1.1023, 0.5935, 0.3043



# Previews

## White Background



This preview shows how the Yxy color 41.9996, 0.3025, 0.2071 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

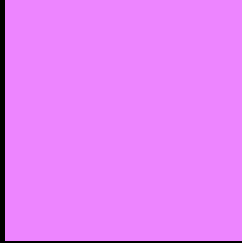
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.9996, 0.3025, 0.2071 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

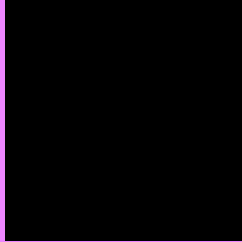
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 41.9996, 0.3025, 0.2071**

## Background



This preview shows how black text looks on a background with the Yxy color 41.9996, 0.3025, 0.2071.



This preview shows how white text looks on a background with the Yxy color 41.9996, 0.3025, 0.2071.

# 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

41.9996, 0.3025, 0.2071

### Protanopia

42.3656, 0.2367, 0.2264

### Deuteranopia

42.3934, 0.2411, 0.2347



## Tritanopia

41.8719, 0.3724, 0.3150

# Trichromacy



## Original Color

41.9996, 0.3025, 0.2071



## Protanomaly

40.7989, 0.2562, 0.2156



## Deuteranomaly

41.0025, 0.2595, 0.2206



## Tritanomaly

41.2930, 0.3457, 0.2704

# Monochromacy



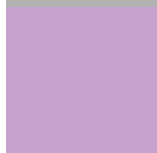
## Original Color

41.9996, 0.3025, 0.2071



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

42.4390, 0.3089, 0.2753

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.9996, 0.3025, 0.2071 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, 133, 255)` looks like.

```
.text, #text, p{  
    color:rgb(237, 133, 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, 133, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 133, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 41.9996, 0.3025, 0.2071 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, 133, 255) }
```

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

```
.border{ border-color:rgb(237, 133, 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, 133, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 133, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 133, 255);  
box-shadow:4px 4px 4px 4px rgb(237, 133,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.9996, 0.3025, 0.2071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 133, 255) }
```

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

```
.background{ background-color: rgb(237,  
133, 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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