

# Converting Colors

$Y_{xy}(45.0382, 0.2764, 0.2472)$

Have a look what the booklet for  
Yxy(45.0382, 0.2764, 0.2472)  
contains.

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# Color

**Yxy(44.9971, 0.2765, 0.2468)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDA8EE
RGB	189, 168, 238
RGB Percent	74%, 66%, 93%
CMY	0.2590, 0.3411, 0.0667
CMYK	0.21, 0.29, 0.00, 0.07
HSL	258°, 67%, 80%
HSV	258°, 29%, 93%
XYZ	50.4121, 44.9971, 86.9130
YIQ	182.2590, -9.9540, 26.2220

# Conversions

## Conversions Part 2

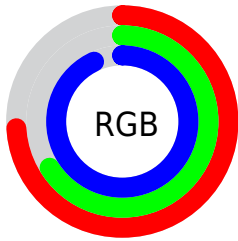
Format	Color
R <sub>Y</sub> B	189, 168, 238
Decimal	12429550
CIE Lab	72.89, 21.59, -32.27
CIE LCh	73, 38.822, 303.782
Yxy	44.9971, 0.2765, 0.2468
Android (android.graphics.Color)	4290619630 (0xFFBDA8EE)
YUV	182.2590, 27.4803, 5.9119
Hunter-Lab	67.0799, 16.7571, -29.8640

# Details

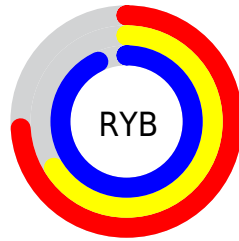
The Yxy color  $44.9971, 0.2765, 0.2468$  is a light color, and the websafe version is hex  $9999CC$ . A complement of this color would be  $78.7355, 0.3420, 0.4063$ , and the grayscale version is  $46.7775, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $79.5882, 0.3080, 0.2974$ , and  $21.0191, 0.2662, 0.2267$  is the 20% darker color. If you saturate the color by 10%, you get  $34.9883, 0.2610, 0.2148$ , and if you desaturate by 10%, it is  $56.8629, 0.2905, 0.2771$ .

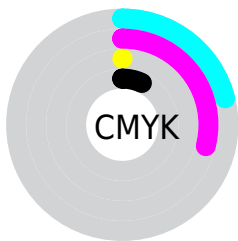
# Distribution



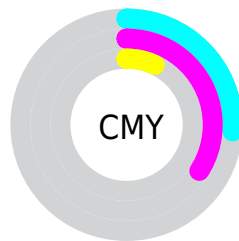
- Red (74%)
- Green (66%)
- Blue (93%)



- Red (74%)
- Yellow (66%)
- Blue (93%)



- Cyan (21%)
- Magenta (29%)
- Yellow (0%)
- Black (7%)




- Cyan (26%)
- Magenta (34%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.9971, 0.2765, 0.2468 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 44.9971, 0.2765, 0.2468 by changing the saturation by 10% instead.




 44.9971, 0.2765,  
0.2468

 44.9971, 0.2765,  
0.2468


366.7618, 0.2950,  
0.2857

 31.4551, 0.2718,  
0.2378


 82.7161, 0.2833,  
0.2604

 20.9457, 0.2659,  
0.2266


 107.6619, 0.2858,  
0.2657

 13.0843, 0.2580,  
0.2125


137.1777, 0.2879,  
0.2702

 7.4866, 0.2472,  
0.1941

171.6480, 0.2898,  
0.2741

 3.7682, 0.2315,  
0.1693

211.4572, 0.2913,  
0.2776

 1.5448, 0.2073,  
0.1350

256.9896, 0.2927,

 0.3199, 0.1710,

0.2806

0.0658

308.6297, 0.2939,  
0.2833

0.0000, 0.0000,  
0.0000

44.9971, 0.2765,  
0.2468

44.9971, 0.2765,  
0.2468

34.9883, 0.2610,  
0.2148

56.8629, 0.2905,  
0.2771

26.7351, 0.2442,  
0.1822

70.6694, 0.3027,  
0.3051

20.1343, 0.2268,  
0.1507

86.5015, 0.3133,  
0.3304

15.0695, 0.2096,  
0.1222

98.9528, 0.3226,  
0.3454

11.4085, 0.1937,  
0.0986

■ 8.9954, 0.1801,  
0.0814

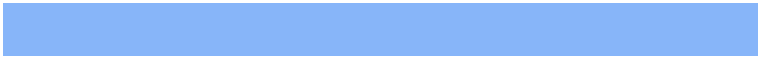
■ 7.5890, 0.1693,  
0.0708

■ 7.5199, 0.1687,  
0.0703

# Harmonies

## Analogous

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



44.9971, 0.2359, 0.2433



44.9971, 0.2765, 0.2468



44.9971, 0.3307, 0.2680

# Triad

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



44.9971, 0.2765, 0.2468



44.9971, 0.4191, 0.3866



44.9971, 0.2435, 0.3528

# Complementary

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



44.9971, 0.2765, 0.2468



78.7355, 0.3420, 0.4063

# 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.



44.9971, 0.2883, 0.4037



44.9971, 0.2765, 0.2468



44.9971, 0.3904, 0.4191

# Square

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



44.9971, 0.2765, 0.2468



44.9971, 0.4174, 0.3446



44.9971, 0.3421, 0.4284



44.9971, 0.2181, 0.2988



# Rectangle

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



44.9971, 0.2765, 0.2468



44.9971, 0.3676, 0.2900



44.9971, 0.3421, 0.4284



44.9971, 0.2567, 0.3714

# Sweetspot

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



44.9989, 0.2765, 0.2468



83.2974, 0.3031, 0.3061



64.7306, 0.2677, 0.3056



17.2904, 0.3015, 0.3022



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.



44.9989, 0.2765, 0.2468



45.6670, 0.2678, 0.2286



49.8475, 0.3036, 0.2530



15.4579, 0.3026, 0.3049



4.2541, 0.1701, 0.0711



0.4037, 0.1839, 0.0787



# Inverse Universe

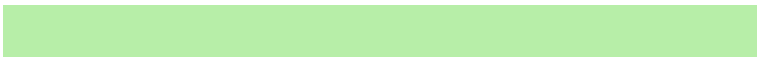
The Inverse Universe completely reimagines the original color for something new.



51.2024, 0.3335, 0.2763



54.0597, 0.3387, 0.2658



74.0640, 0.3185, 0.4123



15.9461, 0.3184, 0.3126



11.7173, 0.4142, 0.2056

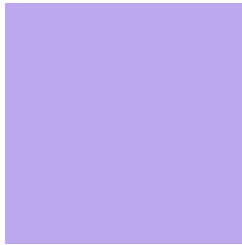


0.9922, 0.3990, 0.1971



# Previews

## White Background



This preview shows how the Yxy color 44.9971, 0.2765, 0.2468 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

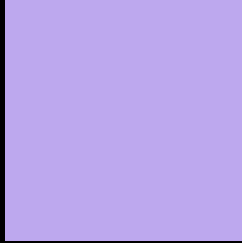
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.9971, 0.2765, 0.2468 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

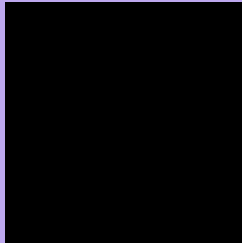
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 44.9971, 0.2765, 0.2468**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.9971, 0.2765, 0.2468.



This preview shows how white text looks on a background with the Yxy color 44.9971, 0.2765, 0.2468.

# 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

44.9971, 0.2765, 0.2468

### Protanopia

45.3469, 0.2525, 0.2470

### Deuteranopia

45.1061, 0.2610, 0.2550



## Tritanopia

45.0296, 0.3050, 0.3108

# Trichromacy



## Original Color

44.9971, 0.2765, 0.2468

## Protanomaly

45.2290, 0.2606, 0.2469

## Deuteranomaly

45.0002, 0.2664, 0.2514

## Tritanomaly

45.0165, 0.2944, 0.2863

# Monochromacy



## Original Color

44.9971, 0.2765, 0.2468

## Achromatopsia

46.7784, 0.3127, 0.3290

## Achromatomaly

46.0228, 0.2998, 0.2974

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.9971, 0.2765, 0.2468 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(189, 168, 238)` looks like.

```
.text, #text, p{  
    color:rgb(189, 168, 238)  
}
```

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(189, 168, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 168, 238) }
```

## Border

The CSS property to change the border of an element to Yxy 44.9971, 0.2765, 0.2468 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(189, 168, 238) }
```

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

```
.border{ border-color:rgb(189, 168, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 168, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 168, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 168, 238);  
box-shadow:4px 4px 4px 4px rgb(189, 168,  
238) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.9971, 0.2765, 0.2468 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 168, 238) }
```

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

```
.background{ background-color: rgb(189,  
168, 238) }
```

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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