

# Converting Colors

$Y_{xy}(49.8582, 0.2570, 0.2461)$

Have a look what the booklet for  
Yxy(49.8582, 0.2570, 0.2461)  
contains.

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# **Color**

**Yxy(49.9070, 0.2569, 0.2463)**

# Conversions

## Conversions Part 1

Format	Color
Hex	<a href="#">ADB7FE</a>
RGB	<a href="#">173, 183, 254</a>
RGB Percent	<a href="#">68%, 72%, 100%</a>
CMY	<a href="#">0.3216, 0.2823, 0.0039</a>
CMYK	<a href="#">0.32, 0.28, 0.00, 0.00</a>
HSL	<a href="#">233°, 98%, 84%</a>
HSV	<a href="#">233°, 32%, 100%</a>
XYZ	<a href="#">52.0548, 49.9070, 100.6650</a>
YIQ	<a href="#">188.1040, -28.7510, 19.9610</a>

# Conversions

## Conversions Part 2

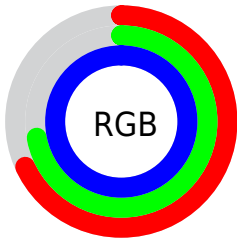
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	173, 182, 254
Decimal	11384830
CIE Lab	76.01, 12.48, -36.19
CIE LCh	76, 38.285, 289.022
Yxy	49.9070, 0.2569, 0.2463
Android (android.graphics.Color)	4289574910 (0xFFADB7FE)
YUV	188.1040, 32.4867, -13.2462
Hunter-Lab	70.6449, 7.8996, -35.0335

# Details

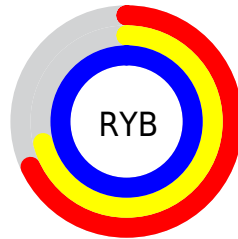
The Yxy color  $49.9070, 0.2569, 0.2463$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $88.7852, 0.3639, 0.4000$ , and the grayscale version is  $50.1758, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $85.7760, 0.2974, 0.3128$ , and  $23.8480, 0.2421, 0.2261$  is the 20% darker color. If you saturate the color by 10%, you get  $38.8153, 0.2366, 0.2150$ , and if you desaturate by 10%, it is  $63.0051, 0.2761, 0.2754$ .

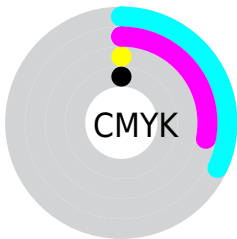
# Distribution



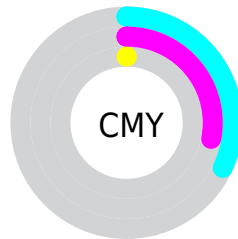
- Red (68%)
- Green (72%)
- Blue (100%)



- Red (68%)
- Yellow (71%)
- Blue (100%)



- Cyan (32%)
- Magenta (28%)
- Yellow (0%)
- Black (0%)




- Cyan (32%)
- Magenta (28%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.9070, 0.2569, 0.2463 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 49.9070, 0.2569, 0.2463 by changing the saturation by 10% instead.





 49.9070, 0.2569,  
0.2463

 49.9070, 0.2569,  
0.2463

386.3021, 0.2841,  
0.2851

 35.3395, 0.2504,  
0.2374


 90.0371, 0.2666,  
0.2598

 23.9245, 0.2423,  
0.2265


116.3684, 0.2703,  
0.2651

 15.2776, 0.2318,  
0.2127


147.3899, 0.2734,  
0.2696

 9.0145, 0.2180,  
0.1950

183.4858, 0.2762,  
0.2735

 4.7506, 0.1990,  
0.1714

225.0406, 0.2785,  
0.2769

 2.1017, 0.1718,  
0.1394

272.4387, 0.2806,

 0.6656, 0.1315,

0.2800

0.0930

326.0644, 0.2825,  
0.2827

0.0000, 0.0000,  
0.0000

49.9070, 0.2569,  
0.2463

49.9070, 0.2569,  
0.2463

38.8153, 0.2366,  
0.2150

63.0051, 0.2761,  
0.2754

29.6248, 0.2162,  
0.1825

78.1961, 0.2939,  
0.3016

22.2296, 0.1966,  
0.1504

95.5687, 0.3099,  
0.3249

16.5105, 0.1794,  
0.1208

99.9366, 0.3133,  
0.3299

12.3342, 0.1656,  
0.0958

■ 9.5459, 0.1564,  
0.0773

■ 8.1586, 0.1521,  
0.0675

# Harmonies

## Analogous

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



49.9070, 0.2270, 0.2526



49.9070, 0.2569, 0.2463



49.9070, 0.3036, 0.2587

# Triad

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



49.9070, 0.2569, 0.2463



49.9070, 0.4173, 0.3652



49.9070, 0.2660, 0.3773

# Complementary

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



49.9070, 0.2569, 0.2463



88.7852, 0.3639, 0.4000

# 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.



49.9070, 0.3147, 0.4155



49.9070, 0.2569, 0.2463



49.9070, 0.4035, 0.4020

# Square

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



49.9070, 0.2569, 0.2463



49.9070, 0.4002, 0.3240



49.9070, 0.3653, 0.4230



49.9070, 0.2316, 0.3247



# Rectangle

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



49.9070, 0.2569, 0.2463



49.9070, 0.3394, 0.2757



49.9070, 0.3653, 0.4230



49.9070, 0.2812, 0.3927

# Sweetspot

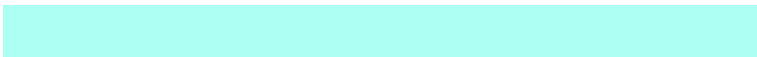
The Sweet Spot groups the original color and five complimentary colors.



49.9089, 0.2569, 0.2463



82.0426, 0.2970, 0.3063



86.2578, 0.2721, 0.3408



17.0588, 0.2947, 0.3029



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.



49.9089, 0.2569, 0.2463



43.2808, 0.2446, 0.2274



49.6916, 0.2766, 0.2396



17.7396, 0.2979, 0.3075



4.4118, 0.1525, 0.0690



0.5385, 0.1567, 0.0841



# Inverse Universe

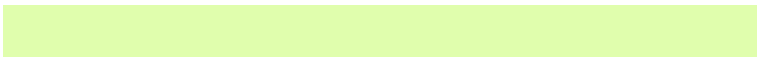
The Inverse Universe completely reimagines the original color for something new.



54.3737, 0.3772, 0.3186



48.6534, 0.3953, 0.3166



89.8038, 0.3408, 0.4146



18.0236, 0.3275, 0.3261



11.1733, 0.6249, 0.3216

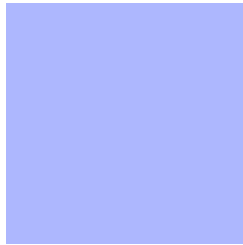


1.0989, 0.6005, 0.3082



# Previews

## White Background



This preview shows how the Yxy color 49.9070, 0.2569, 0.2463 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

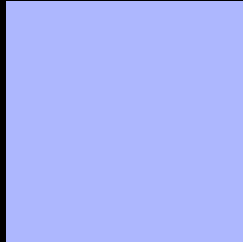
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.9070, 0.2569, 0.2463 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

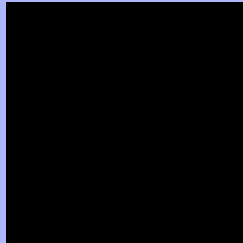
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.9070, 0.2569, 0.2463**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.9070, 0.2569, 0.2463.



This preview shows how white text looks on a background with the Yxy color 49.9070, 0.2569, 0.2463.

# 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

49.9070, 0.2569, 0.2463

### Protanopia

50.1334, 0.2528, 0.2469

### Deuteranopia

50.1785, 0.2540, 0.2480



## Tritanopia

49.9908, 0.2800, 0.3095

# Trichromacy



## Original Color

49.9070, 0.2569, 0.2463

## Protanomaly

49.9360, 0.2539, 0.2460

## Deuteranomaly

49.9828, 0.2551, 0.2471

## Tritanomaly

49.9925, 0.2716, 0.2853

# Monochromacy



## Original Color

49.9070, 0.2569, 0.2463

## Achromatopsia

50.2886, 0.3127, 0.3290

## Achromatomaly

49.9386, 0.2911, 0.2968

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.9070, 0.2569, 0.2463 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(173, 183, 254)` looks like.

```
.text, #text, p{  
    color:rgb(173, 183, 254)  
}
```

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(173, 183, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 183, 254) }
```

## Border

The CSS property to change the border of an element to Yxy 49.9070, 0.2569, 0.2463 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(173, 183, 254) }
```

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

```
.border{ border-color:rgb(173, 183, 254) }
```

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

Here you see how a box with a 4 pixel `rgb(173, 183, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 183, 254); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 183, 254);  
box-shadow:4px 4px 4px 4px rgb(173, 183,  
254) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.9070, 0.2569, 0.2463 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 183, 254) }
```

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

```
.background{ background-color: rgb(173,  
183, 254) }
```

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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