

# Converting Colors

$Y_{xy}(42.3564, 0.2487, 0.2231)$

Have a look what the booklet for  
Yxy(42.3564, 0.2487, 0.2231)  
contains.

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# Color

**Yxy(42.2373, 0.2489, 0.2226)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6A5FF
RGB	166, 165, 255
RGB Percent	65%, 65%, 100%
CMY	0.3491, 0.3529, 0.0000
CMYK	0.35, 0.35, 0.00, 0.00
HSL	241°, 100%, 82%
HSV	241°, 35%, 100%
XYZ	47.2276, 42.2373, 100.2804
YIQ	175.5590, -28.2940, 28.2020

# Conversions

## Conversions Part 2

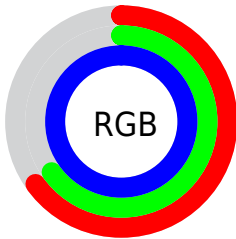
Format	Color
R <sub>Y</sub> B	166, 165, 255
Decimal	10921471
CIE Lab	71.03, 20.88, -44.53
CIE LCh	71, 49.180, 295.120
Yxy	42.2373, 0.2489, 0.2226
Android (android.graphics.Color)	4289111551 (0xFFA6A5FF)
YUV	175.5590, 39.1644, -8.3832
Hunter-Lab	64.9902, 15.9809, -45.9917

# Details

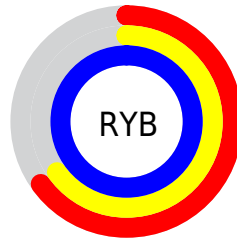
The Yxy color **42.2373, 0.2489, 0.2226** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **95.3149, 0.3654, 0.4174**, and the grayscale version is **42.9769, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.0944, 0.2926, 0.2927**, and **19.2670, 0.2315, 0.1969** is the 20% darker color. If you saturate the color by 10%, you get **31.4739, 0.2274, 0.1869**, and if you desaturate by 10%, it is **55.3708, 0.2694, 0.2567**.

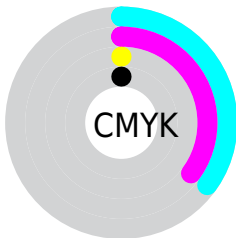
# Distribution



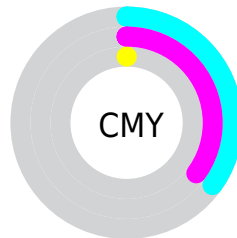
- Red (65%)
- Green (65%)
- Blue (100%)



- Red (65%)
- Yellow (65%)
- Blue (100%)



- Cyan (35%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)



- Cyan (35%)
- Magenta (35%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.2373, 0.2489, 0.2226 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 42.2373, 0.2489, 0.2226 by changing the saturation by 10% instead.




 42.2373, 0.2489,  
0.2226


 42.2373, 0.2489,  
0.2226


355.4657, 0.2809,  
0.2726

 29.2871, 0.2411,  
0.2113


 78.5586, 0.2604,  
0.2399

 19.2982, 0.2313,  
0.1974


 102.6986, 0.2648,  
0.2467

 11.8859, 0.2186,  
0.1801


131.3373, 0.2685,  
0.2525

 6.6660, 0.2017,  
0.1582

164.8592, 0.2717,  
0.2576

 3.2541, 0.1785,  
0.1299

203.6485, 0.2745,  
0.2620

 1.2658, 0.1457,  
0.0935

248.0898, 0.2769,

 0.1145, 0.0993,

0.2659

0.0184

298.5674, 0.2790,  
0.2694

0.0000, 0.0000,  
0.0000

42.2373, 0.2489,  
0.2226

42.2373, 0.2489,  
0.2226

31.4739, 0.2274,  
0.1869

55.3708, 0.2694,  
0.2567

22.9371, 0.2059,  
0.1514

71.0013, 0.2881,  
0.2879

16.4718, 0.1862,  
0.1187

89.2495, 0.3048,  
0.3157

11.9022, 0.1698,  
0.0918

100.0000, 0.3127,  
0.3290

9.0230, 0.1581,  
0.0728

■ 7.5815, 0.1518,  
0.0626

■ 7.2376, 0.1502,  
0.0601

# Harmonies

## Analogous

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



42.2373, 0.2060, 0.2242



42.2373, 0.2489, 0.2226



42.2373, 0.3139, 0.2431

# Triad

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



42.2373, 0.2489, 0.2226



42.2373, 0.4530, 0.3837



42.2373, 0.2379, 0.3810

# Complementary

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



42.2373, 0.2489, 0.2226



95.3149, 0.3654, 0.4174

# 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.



42.2373, 0.2990, 0.4425



42.2373, 0.2489, 0.2226



42.2373, 0.4244, 0.4319

# Square

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



42.2373, 0.2489, 0.2226



42.2373, 0.4398, 0.3305



42.2373, 0.3673, 0.4589



42.2373, 0.1996, 0.3067



# Rectangle

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



42.2373, 0.2489, 0.2226



42.2373, 0.3628, 0.2669



42.2373, 0.3673, 0.4589



42.2373, 0.2563, 0.4050

# Sweetspot

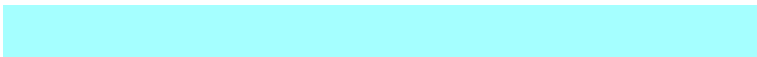
The Sweet Spot groups the original color and five complimentary colors.



42.2381, 0.2489, 0.2226



78.5024, 0.2955, 0.3003



86.7405, 0.2628, 0.3289



16.2840, 0.2932, 0.2964



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.



42.2381, 0.2489, 0.2226



34.7623, 0.2345, 0.1987



47.8365, 0.2810, 0.2314



17.3870, 0.2980, 0.3044



3.7858, 0.1503, 0.0602



0.3717, 0.1511, 0.0606



# Inverse Universe

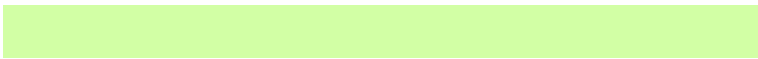
The Inverse Universe completely reimagines the original color for something new.



55.3323, 0.3176, 0.2421



49.5549, 0.3185, 0.2265



87.9394, 0.3356, 0.4269



18.2968, 0.3140, 0.3058



14.7918, 0.3236, 0.1556

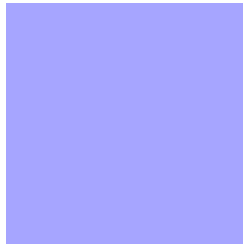


1.4413, 0.3233, 0.1555



# Previews

## White Background



This preview shows how the Yxy color 42.2373, 0.2489, 0.2226 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

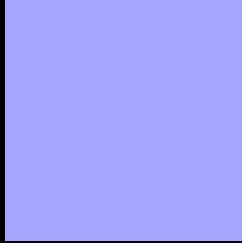
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.2373, 0.2489, 0.2226 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

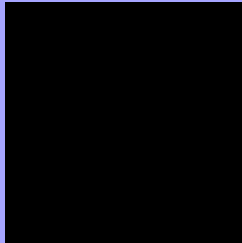
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.2373, 0.2489, 0.2226**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.2373, 0.2489, 0.2226.



This preview shows how white text looks on a background with the Yxy color 42.2373, 0.2489, 0.2226.

# 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

42.2373, 0.2489, 0.2226

### Protanopia

42.3656, 0.2367, 0.2264

### Deuteranopia

42.2596, 0.2356, 0.2290



## Tritanopia

42.3220, 0.2807, 0.3096

# Trichromacy



## Original Color

42.2373, 0.2489, 0.2226

## Protanomaly

42.3682, 0.2412, 0.2252

## Deuteranomaly

42.0157, 0.2398, 0.2257

## Tritanomaly

41.9615, 0.2682, 0.2737

# Monochromacy



## Original Color

42.2373, 0.2489, 0.2226

## Achromatopsia

43.4154, 0.3127, 0.3290

## Achromatomaly

42.6835, 0.2867, 0.2861

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.2373, 0.2489, 0.2226 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(166, 165, 255)` looks like.

```
.text, #text, p{  
    color:rgb(166, 165, 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(166, 165, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 165, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 42.2373, 0.2489, 0.2226 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(166, 165, 255) }
```

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

```
.border{ border-color:rgb(166, 165, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 165, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 165, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 165, 255);  
box-shadow:4px 4px 4px 4px rgb(166, 165,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.2373, 0.2489, 0.2226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 165, 255) }
```

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

```
.background{ background-color: rgb(166,  
165, 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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