

# Converting Colors

$Y_{xy}(40.7084, 0.2381, 0.2021)$

Have a look what the booklet for  
Yxy(40.7084, 0.2381, 0.2021)  
contains.

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# Color

**Yxy(39.8028, 0.2459, 0.2149)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A39FFF
RGB	163, 159, 255
RGB Percent	64%, 62%, 100%
CMY	0.3609, 0.3764, 0.0001
CMYK	0.36, 0.38, 0.00, 0.00
HSL	242°, 100%, 81%
HSV	242°, 38%, 100%
XYZ	45.5445, 39.8028, 99.8682
YIQ	171.1400, -28.4320, 30.7040

# Conversions

## Conversions Part 2

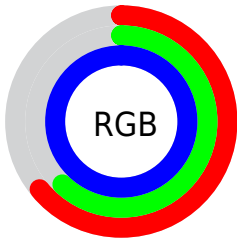
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	163, 159, 255
Decimal	10723327
CIE Lab	69.33, 23.47, -47.20
CIE LCh	69, 52.713, 296.434
Yxy	39.8028, 0.2459, 0.2149
Android (android.graphics.Color)	4288913407 (0xFFA39FFF)
YUV	171.1400, 41.3430, -7.1388
Hunter-Lab	63.0895, 18.4532, -49.6911

# Details

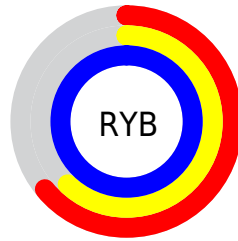
The Yxy color **39.8028, 0.2459, 0.2149** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **94.5204, 0.3667, 0.4237**, and the grayscale version is **40.5971, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.5288, 0.2904, 0.2860**, and **17.9281, 0.2269, 0.1881** is the 20% darker color. If you saturate the color by 10%, you get **29.5845, 0.2247, 0.1793**, and if you desaturate by 10%, it is **52.3314, 0.2662, 0.2492**.

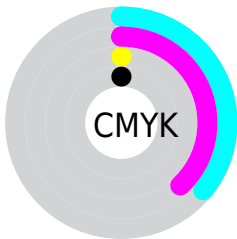
# Distribution



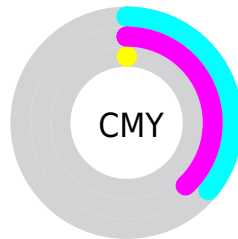
- Red (64%)
- Green (62%)
- Blue (100%)



- Red (64%)
- Yellow (62%)
- Blue (100%)



- Cyan (36%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (36%)
- Magenta (38%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.8028, 0.2459, 0.2149 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 39.8028, 0.2459, 0.2149 by changing the saturation by 10% instead.





 39.8028, 0.2459,  
0.2149


 39.8028, 0.2459,  
0.2149


345.2917, 0.2797,  
0.2685

 27.3848, 0.2376,  
0.2028


 74.8631, 0.2581,  
0.2335

 17.8624, 0.2272,  
0.1880


 98.2743, 0.2627,  
0.2407

 10.8513, 0.2136,  
0.1696


126.1186, 0.2667,  
0.2470

 5.9669, 0.1956,  
0.1464

158.7805, 0.2700,  
0.2524

 2.8250, 0.1709,  
0.1170

196.6444, 0.2729,  
0.2572

 1.0411, 0.1362,  
0.0799

240.0946, 0.2755,

 0.0000, 0.0846,

0.2614


0.0000


289.5156, 0.2777,  
0.2651


 0.0000, 0.0000,  
0.0000

 39.8028, 0.2459,  
0.2149


 39.8028, 0.2459,  
0.2149


 29.5845, 0.2247,  
0.1793


 52.3314, 0.2662,  
0.2492

 21.5310, 0.2037,  
0.1445


 67.2947, 0.2848,  
0.2810

 15.4878, 0.1845,  
0.1130

 84.8136, 0.3014,  
0.3095

 11.2776, 0.1688,  
0.0877

99.9984, 0.3127,  
0.3290

 8.6924, 0.1577,  
0.0704

■ 7.4621, 0.1517,  
0.0617

■ 7.2863, 0.1509,  
0.0605

# Harmonies

## Analogous

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



39.8028, 0.1990, 0.2151



39.8028, 0.2459, 0.2149



39.8028, 0.3170, 0.2378

# Triad

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



39.8028, 0.2459, 0.2149



39.8028, 0.4648, 0.3890



39.8028, 0.2287, 0.3823

# Complementary

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



39.8028, 0.2459, 0.2149



94.5204, 0.3667, 0.4237

# 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.



39.8028, 0.2936, 0.4524



39.8028, 0.2459, 0.2149



39.8028, 0.4310, 0.4415

# Square

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



39.8028, 0.2459, 0.2149



39.8028, 0.4533, 0.3320



39.8028, 0.3677, 0.4715



39.8028, 0.1892, 0.3006



# Rectangle

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



39.8028, 0.2459, 0.2149



39.8028, 0.3706, 0.2637



39.8028, 0.3677, 0.4715



39.8028, 0.2481, 0.4094

# Sweetspot

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



39.8043, 0.2459, 0.2149



78.6423, 0.2961, 0.3003



84.0715, 0.2596, 0.3253



16.3170, 0.2938, 0.2965



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.



39.8043, 0.2459, 0.2149



32.0674, 0.2303, 0.1887



45.7507, 0.2809, 0.2251



17.4135, 0.2985, 0.3044



3.8235, 0.1512, 0.0607



0.3843, 0.1541, 0.0623



# Inverse Universe

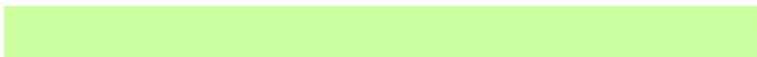
The Inverse Universe completely reimagines the original color for something new.



53.0236, 0.3203, 0.2390



47.0083, 0.3219, 0.2227



86.8166, 0.3348, 0.4347



18.2867, 0.3144, 0.3065



14.5429, 0.3315, 0.1600

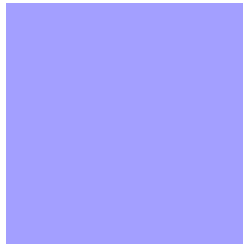


1.4199, 0.3302, 0.1593



# Previews

## White Background



This preview shows how the Yxy color 39.8028, 0.2459, 0.2149 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

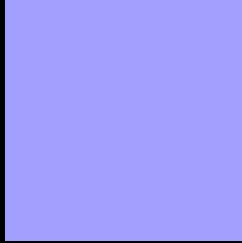
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.8028, 0.2459, 0.2149 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

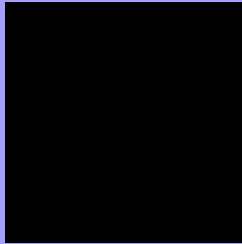
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 39.8028, 0.2459, 0.2149**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.8028, 0.2459, 0.2149.



This preview shows how white text looks on a background with the Yxy color 39.8028, 0.2459, 0.2149.

# 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

39.8028, 0.2459, 0.2149

### Protanopia

39.8957, 0.2315, 0.2190

### Deuteranopia

39.9224, 0.2289, 0.2224



## Tritanopia

39.7709, 0.2807, 0.3091

# Trichromacy



## Original Color

39.8028, 0.2459, 0.2149

## Protanomaly

39.6174, 0.2362, 0.2168

## Deuteranomaly

39.9057, 0.2347, 0.2195

## Tritanomaly

39.5310, 0.2665, 0.2700

# Monochromacy



## Original Color

39.8028, 0.2459, 0.2149

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

40.2265, 0.2854, 0.2826

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.8028, 0.2459, 0.2149 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(163, 159, 255)` looks like.

```
.text, #text, p{  
    color:rgb(163, 159, 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(163, 159, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 159, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 39.8028, 0.2459, 0.2149 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(163, 159, 255) }
```

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

```
.border{ border-color:rgb(163, 159, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 159, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(163, 159, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(163, 159, 255); box-shadow:4px 4px 4px 4px rgb(163, 159, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.8028, 0.2459, 0.2149 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 159, 255) }
```

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

```
.background{ background-color: rgb(163,  
159, 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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