

# Converting Colors

$Y_{xy}(38.0675, 0.2455, 0.2226)$

Have a look what the booklet for  
Yxy(38.0675, 0.2455, 0.2226)  
contains.

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# Color

**Yxy(38.1980, 0.2459, 0.2234)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9A9FF4
RGB	154, 159, 244
RGB Percent	60%, 62%, 96%
CMY	0.3963, 0.3764, 0.0431
CMYK	0.37, 0.35, 0.00, 0.04
HSL	237°, 80%, 78%
HSV	237°, 37%, 96%
XYZ	42.0452, 38.1980, 90.7416
YIQ	167.1950, -30.2650, 25.3750

# Conversions

## Conversions Part 2

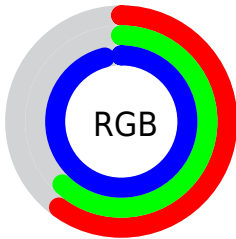
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	154, 159, 244
Decimal	10133492
CIELab	68.17, 18.19, -43.10
CIELCh	68, 46.778, 292.882
Yxy	38.1980, 0.2459, 0.2234
Android (android.graphics.Color)	4288323572 (0xFF9A9FF4)
YUV	167.1950, 37.8649, -11.5720
Hunter-Lab	61.8045, 13.2743, -43.7866

# Details

The Yxy color **38.1980, 0.2459, 0.2234** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **83.2521, 0.3700, 0.4164**, and the grayscale version is **38.5638, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.1620, 0.2844, 0.2853**, and **16.9656, 0.2273, 0.1980** is the 20% darker color. If you saturate the color by 10%, you get **28.8484, 0.2248, 0.1892**, and if you desaturate by 10%, it is **49.5119, 0.2663, 0.2559**.

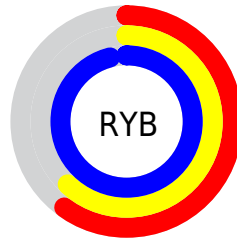
# Distribution



Red (60%)

Green (62%)

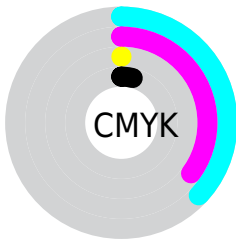
Blue (96%)



Red (60%)

Yellow (62%)

Blue (96%)

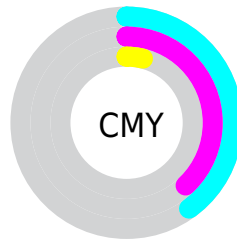


Cyan (37%)

Magenta (35%)

Yellow (0%)

Black (4%)



Cyan (40%)

Magenta (38%)


Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.1980, 0.2459, 0.2234 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 38.1980, 0.2459, 0.2234 by changing the saturation by 10% instead.





 38.1980, 0.2459,  
0.2234


 38.1980, 0.2459,  
0.2234


338.4686, 0.2798,  
0.2740

 26.1364, 0.2375,  
0.2117


 72.4115, 0.2582,  
0.2412

 16.9257, 0.2269,  
0.1972


 95.3322, 0.2629,  
0.2480

 10.1815, 0.2130,  
0.1789


122.6414, 0.2668,  
0.2539

 5.5195, 0.1943,  
0.1555

154.7235, 0.2701,  
0.2590

 2.5552, 0.1685,  
0.1250

191.9629, 0.2731,  
0.2635

 0.9042, 0.1316,  
0.0854

234.7439, 0.2756,

 0.0000, 0.0565,

0.2674

0.0000

283.4510, 0.2779,  
0.2709

0.0000, 0.0000,  
0.0000

38.1980, 0.2459,  
0.2234

38.1980, 0.2459,  
0.2234

28.8484, 0.2248,  
0.1892

49.5119, 0.2663,  
0.2559

21.3472, 0.2040,  
0.1551

62.8886, 0.2851,  
0.2858

15.5727, 0.1849,  
0.1233

78.4253, 0.3021,  
0.3125

11.3871, 0.1692,  
0.0964

96.2117, 0.3172,  
0.3359

8.6312, 0.1580,  
0.0765

99.3115, 0.3191,  
0.3396

■ 7.1117, 0.1519,  
0.0647

■ 6.8387, 0.1507,  
0.0625

# Harmonies

## Analogous

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



38.1980, 0.2054, 0.2268



38.1980, 0.2459, 0.2234



38.1980, 0.3086, 0.2421

# Triad

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



38.1980, 0.2459, 0.2234



38.1980, 0.4514, 0.3793



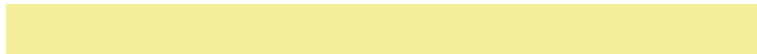
38.1980, 0.2430, 0.3855

# Complementary

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



38.1980, 0.2459, 0.2234



83.2521, 0.3700, 0.4164

# 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.



38.1980, 0.3043, 0.4434



38.1980, 0.2459, 0.2234



38.1980, 0.4261, 0.4275

# Square

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



38.1980, 0.2459, 0.2234



38.1980, 0.4350, 0.3268



38.1980, 0.3715, 0.4560



38.1980, 0.2031, 0.3123



# Rectangle

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



38.1980, 0.2459, 0.2234



38.1980, 0.3567, 0.2648



38.1980, 0.3715, 0.4560



38.1980, 0.2617, 0.4085

# Sweetspot

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



38.1994, 0.2459, 0.2234



79.3218, 0.2953, 0.3019



77.7369, 0.2639, 0.3358



16.4772, 0.2930, 0.2983



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.



38.1994, 0.2459, 0.2234



34.5750, 0.2307, 0.1989



40.9584, 0.2744, 0.2254



16.0764, 0.2979, 0.3059



3.7793, 0.1510, 0.0634



0.3839, 0.1534, 0.0721



# Inverse Universe

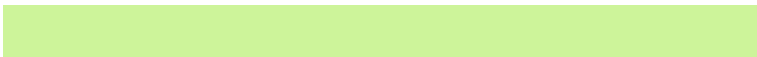
The Inverse Universe completely reimagines the original color for something new.



44.8301, 0.3979, 0.3237



43.0187, 0.4236, 0.3227



80.0064, 0.3406, 0.4301



16.4976, 0.3285, 0.3277



10.4809, 0.6342, 0.3267

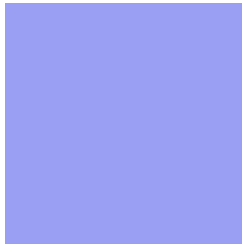


0.9264, 0.6197, 0.3188



# Previews

## White Background



This preview shows how the Yxy color 38.1980, 0.2459, 0.2234 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

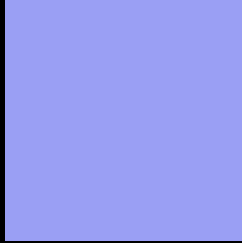
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.1980, 0.2459, 0.2234 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

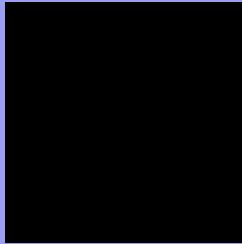
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.1980, 0.2459, 0.2234**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.1980, 0.2459, 0.2234.



This preview shows how white text looks on a background with the Yxy color 38.1980, 0.2459, 0.2234.

# 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

38.1980, 0.2459, 0.2234

### Protanopia

38.2282, 0.2342, 0.2227

### Deuteranopia

38.4497, 0.2348, 0.2288



## Tritanopia

38.2041, 0.2757, 0.3086

# Trichromacy



**Original Color**

38.1980, 0.2459, 0.2234

**Protanomaly**

38.3341, 0.2382, 0.2233

**Deuteranomaly**

38.3282, 0.2387, 0.2273

**Tritanomaly**

38.1134, 0.2644, 0.2751

# Monochromacy



**Original Color**

38.1980, 0.2459, 0.2234

**Achromatopsia**

38.6429, 0.3127, 0.3290

**Achromatomaly**

38.1724, 0.2855, 0.2866

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.1980, 0.2459, 0.2234 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(154, 159, 244)` looks like.

```
.text, #text, p{  
    color:rgb(154, 159, 244)  
}
```

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(154, 159, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 159, 244) }
```

## Border

The CSS property to change the border of an element to Yxy 38.1980, 0.2459, 0.2234 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(154, 159, 244) }
```

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

```
.border{ border-color:rgb(154, 159, 244) }
```

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

Here you see how a box with a 4 pixel `rgb(154, 159, 244)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 159, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 159, 244);  
box-shadow:4px 4px 4px 4px rgb(154, 159,  
244) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.1980, 0.2459, 0.2234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 159, 244) }
```

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

```
.background{ background-color: rgb(154,  
159, 244) }
```

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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