

# Converting Colors

$Y_{xy}(42.9995, 0.2154, 0.1719)$

Have a look what the booklet for  
Yxy(42.9995, 0.2154, 0.1719)  
contains.

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# Color

**Yxy(38.8863, 0.2399, 0.2131)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9A9FFF
RGB	154, 159, 255
RGB Percent	60%, 62%, 100%
CMY	0.3960, 0.3765, 0.0000
CMYK	0.40, 0.38, 0.00, 0.00
HSL	237°, 100%, 80%
HSV	237°, 40%, 100%
XYZ	43.7767, 38.8863, 99.8161
YIQ	168.4490, -33.7960, 28.7960

# Conversions

## Conversions Part 2

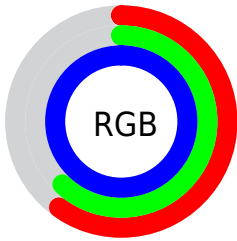
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">154, 159, 255</a>
Decimal	<a href="#">10133503</a>
CIELab	<a href="#">68.67, 21.18, -48.31</a>
CIElCh	<a href="#">69, 52.746, 293.678</a>
Yxy	<a href="#">38.8863, 0.2399, 0.2131</a>
Android (android.graphics.Color)	<a href="#">4288323583</a> ( <a href="#">0xFF9A9FFF</a> )
YUV	<a href="#">168.4490, 42.6696, -12.6718</a>
Hunter-Lab	<a href="#">62.3589, 16.1813, -51.2526</a>

# Details

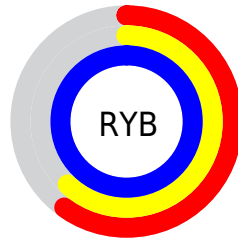
The Yxy color **38.8863, 0.2399, 0.2131** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **91.9709, 0.3740, 0.4233**, and the grayscale version is **39.1894, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.1620, 0.2844, 0.2853**, and **17.3990, 0.2198, 0.1857** is the 20% darker color. If you saturate the color by 10%, you get **29.1096, 0.2186, 0.1785**, and if you desaturate by 10%, it is **50.8302, 0.2607, 0.2466**.

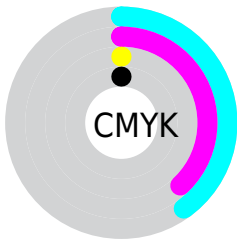
# Distribution



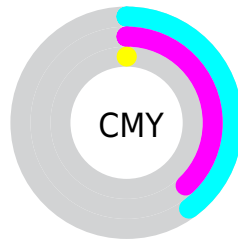
- Red (60%)
- Green (62%)
- Blue (100%)



- Red (60%)
- Yellow (62%)
- Blue (100%)



- Cyan (40%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (40%)
- Magenta (38%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.8863, 0.2399, 0.2131 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 38.8863, 0.2399, 0.2131 by changing the saturation by 10% instead.





 38.8863, 0.2399,  
0.2131

 38.8863, 0.2399,  
0.2131


341.4068, 0.2766,  
0.2678

 26.6713, 0.2310,  
0.2007


 73.4646, 0.2531,  
0.2321

 17.3265, 0.2197,  
0.1855


 96.5967, 0.2581,  
0.2395

 10.4676, 0.2052,  
0.1667


124.1365, 0.2624,  
0.2458

 5.7100, 0.1859,  
0.1430

156.4686, 0.2661,  
0.2514

 2.6696, 0.1598,  
0.1130

193.9773, 0.2692,  
0.2562

 0.9618, 0.1237,  
0.0755

237.0470, 0.2720,

 0.0000, 0.0650,

0.2605


0.0000

286.0620, 0.2744,  
0.2644


 0.0000, 0.0000,  
0.0000

 38.8863, 0.2399,  
0.2131


 38.8863, 0.2399,  
0.2131

 29.1096, 0.2186,  
0.1785


 50.8302, 0.2607,  
0.2466

 21.3683, 0.1980,  
0.1445


 65.0587, 0.2801,  
0.2775

 15.5193, 0.1797,  
0.1138

 81.6827, 0.2977,  
0.3054

 11.3998, 0.1652,  
0.0889

100.0000, 0.3127,  
0.3290

 8.8198, 0.1555,  
0.0715

■ 7.5289, 0.1507,  
0.0623

■ 7.4977, 0.1506,  
0.0621

# Harmonies

## Analogous

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



38.8863, 0.1952, 0.2155



38.8863, 0.2399, 0.2131



38.8863, 0.3097, 0.2341

# Triad

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



38.8863, 0.2399, 0.2131



38.8863, 0.4670, 0.3840



38.8863, 0.2331, 0.3905

# Complementary

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



38.8863, 0.2399, 0.2131



91.9709, 0.3740, 0.4233

# 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.



38.8863, 0.3001, 0.4578



38.8863, 0.2399, 0.2131



38.8863, 0.4365, 0.4380

# Square

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



38.8863, 0.2399, 0.2131



38.8863, 0.4509, 0.3268



38.8863, 0.3746, 0.4716



38.8863, 0.1907, 0.3072



# Rectangle

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



38.8863, 0.2399, 0.2131



38.8863, 0.3637, 0.2592



38.8863, 0.3746, 0.4716



38.8863, 0.2534, 0.4172

# Sweetspot

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



38.8869, 0.2399, 0.2131



77.4761, 0.2936, 0.2990



85.2900, 0.2601, 0.3345



16.1050, 0.2914, 0.2954



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.



38.8869, 0.2399, 0.2131



30.5374, 0.2220, 0.1840



42.5387, 0.2721, 0.2172



17.5216, 0.2978, 0.3056



3.9777, 0.1508, 0.0629



0.4357, 0.1528, 0.0699



# Inverse Universe

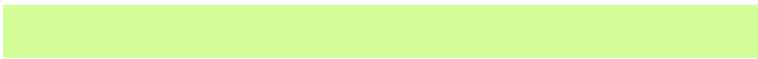
The Inverse Universe completely reimagines the original color for something new.



46.8774, 0.4082, 0.3240



39.7795, 0.4404, 0.3231



87.4897, 0.3412, 0.4387



18.0016, 0.3287, 0.3279



11.1295, 0.6351, 0.3272

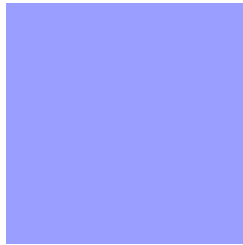


1.0885, 0.6235, 0.3208



# Previews

## White Background



This preview shows how the Yxy color 38.8863, 0.2399, 0.2131 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

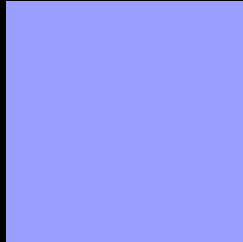
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.8863, 0.2399, 0.2131 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

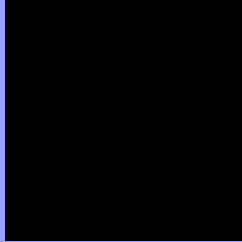
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.8863, 0.2399, 0.2131**

## Background



This preview shows how black text looks on a background with the Yxy color 38.8863, 0.2399, 0.2131.



This preview shows how white text looks on a background with the Yxy color 38.8863, 0.2399, 0.2131.

# 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

38.8863, 0.2399, 0.2131

### Protanopia

38.9218, 0.2293, 0.2160

### Deuteranopia

39.1649, 0.2260, 0.2204



## Tritanopia

38.7934, 0.2723, 0.3086

# Trichromacy



## Original Color

38.8863, 0.2399, 0.2131

## Protanomaly

38.8114, 0.2330, 0.2146

## Deuteranomaly

38.9409, 0.2304, 0.2171

## Tritanomaly

38.5984, 0.2592, 0.2688

# Monochromacy



## Original Color

38.8863, 0.2399, 0.2131

## Achromatopsia

39.1572, 0.3127, 0.3290

## Achromatomaly

38.8669, 0.2826, 0.2818

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.8863, 0.2399, 0.2131 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, 255)` looks like.

```
.text, #text, p{  
    color:rgb(154, 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(154, 159, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 159, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 38.8863, 0.2399, 0.2131 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, 255) }
```

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

```
.border{ border-color:rgb(154, 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(154, 159, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 159, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 159, 255);  
box-shadow:4px 4px 4px 4px rgb(154, 159,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.8863, 0.2399, 0.2131 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, 255) }
```

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

```
.background{ background-color: rgb(154,  
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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