

# Converting Colors

$Y_{xy}(33.2059, 0.2480, 0.1893)$

Have a look what the booklet for  
Yxy(33.2059, 0.2480, 0.1893)  
contains.

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**Color**

**Yxy(33.2059, 0.2480, 0.1893)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AB87FF
RGB	171, 135, 255
RGB Percent	67%, 53%, 100%
CMY	0.3295, 0.4705, 0.0001
CMYK	0.33, 0.47, 0.00, 0.00
HSL	258°, 100%, 76%
HSV	258°, 47%, 100%
XYZ	43.5027, 33.2059, 98.7055
YIQ	159.4440, -17.0640, 44.9520

# Conversions

## Conversions Part 2

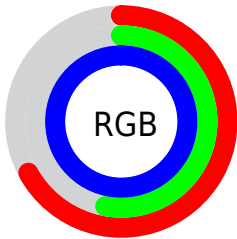
<b>Format</b>	<b>Color</b>
<b>RYB</b>	171, 135, 255
Decimal	11241471
CIELab	64.33, 39.09, -55.07
CIELCh	64, 67.531, 305.368
Yxy	33.2059, 0.2480, 0.1893
Android (android.graphics.Color)	4289431551 (0xFFAB87FF)
YUV	159.4440, 47.1091, 10.1346
Hunter-Lab	57.6246, 33.9126, -61.2211

# Details

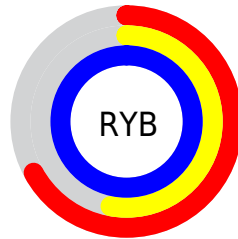
The Yxy color **33.2059, 0.2480, 0.1893** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **88.3174, 0.3575, 0.4553**, and the grayscale version is **34.6715, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.2732, 0.2962, 0.2604**, and **14.0627, 0.2282, 0.1570** is the 20% darker color. If you saturate the color by 10%, you get **25.0519, 0.2306, 0.1573**, and if you desaturate by 10%, it is **43.3366, 0.2646, 0.2220**.

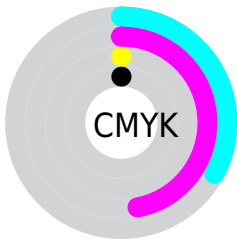
# Distribution



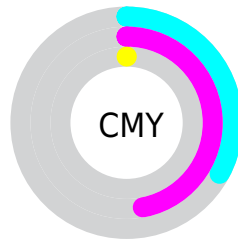
- Red (67%)
- Green (53%)
- Blue (100%)



- Red (67%)
- Yellow (53%)
- Blue (100%)



- Cyan (33%)
- Magenta (47%)
- Yellow (0%)
- Black (0%)




- Cyan (33%)
- Magenta (47%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.2059, 0.2480, 0.1893 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 33.2059, 0.2480, 0.1893 by changing the saturation by 10% instead.





 33.2059, 0.2480,  
0.1893


 33.2059, 0.2480,  
0.1893


316.5765, 0.2823,  
0.2542


 22.2842, 0.2393,  
0.1750

 64.6969, 0.2607,  
0.2115

 14.0659, 0.2281,  
0.1577


 86.0349, 0.2654,  
0.2203

 8.1665, 0.2135,  
0.1366


 111.6139, 0.2693,  
0.2279

 4.2017, 0.1938,  
0.1110

141.8182, 0.2727,  
0.2345

 1.7870, 0.1666,  
0.0800

177.0322, 0.2756,  
0.2403

 0.4791, 0.1290,  
0.0400

217.6404, 0.2781,


 0.0000, 0.0635,


0.2455


0.0000


264.0270, 0.2803,  
0.2501

 0.0000, 0.0000,  
0.0000


 33.2059, 0.2480,  
0.1893


 33.2059, 0.2480,  
0.1893

 25.0519, 0.2306,  
0.1573


 43.3366, 0.2646,  
0.2220

 18.7365, 0.2133,  
0.1279


 55.5620, 0.2798,  
0.2538

 14.1092, 0.1970,  
0.1030

 69.9946, 0.2934,  
0.2838

 10.9928, 0.1827,  
0.0844

 86.7383, 0.3053,  
0.3113

 9.1634, 0.1713,  
0.0727

99.9986, 0.3127,  
0.3290

■ 8.7737, 0.1685,  
0.0702

# Harmonies

## Analogous

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



33.2059, 0.1801, 0.1795



33.2059, 0.2480, 0.1893



33.2059, 0.3487, 0.2248

# Triad

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



33.2059, 0.2480, 0.1893



33.2059, 0.5029, 0.4185



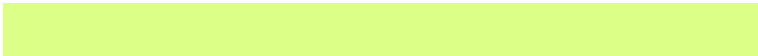
33.2059, 0.1814, 0.3647

# Complementary

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



33.2059, 0.2480, 0.1893



88.3174, 0.3575, 0.4553

# 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.



33.2059, 0.2545, 0.4808



33.2059, 0.2480, 0.1893



33.2059, 0.4392, 0.4884

# Square

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



33.2059, 0.2480, 0.1893



33.2059, 0.5134, 0.3469



33.2059, 0.3489, 0.5259



33.2059, 0.1464, 0.2590



# Rectangle

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



33.2059, 0.2480, 0.1893



33.2059, 0.4215, 0.2603



33.2059, 0.3489, 0.5259



33.2059, 0.2018, 0.4062

# Sweetspot

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



33.2071, 0.2480, 0.1893



74.8634, 0.2972, 0.2924



64.0779, 0.2427, 0.2885



15.2835, 0.2946, 0.2863



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.



33.2071, 0.2480, 0.1893



25.8228, 0.2325, 0.1606



41.2067, 0.2956, 0.2064



17.6417, 0.3026, 0.3048



4.6526, 0.1700, 0.0710



0.5069, 0.1817, 0.0775



# Inverse Universe

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



43.7031, 0.3511, 0.2448



37.6552, 0.3613, 0.2307



80.8339, 0.3201, 0.4719



18.2021, 0.3184, 0.3125



12.8274, 0.4148, 0.2059

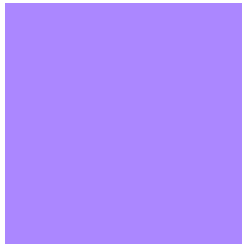


1.2683, 0.4015, 0.1985



# Previews

## White Background



This preview shows how the Yxy color 33.2059, 0.2480, 0.1893 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

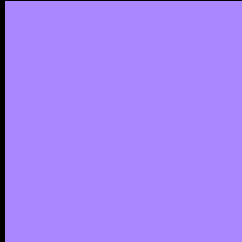
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.2059, 0.2480, 0.1893 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

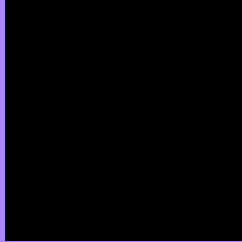
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.2059, 0.2480, 0.1893**

## Background



This preview shows how black text looks on a background with the Yxy color 33.2059, 0.2480, 0.1893.

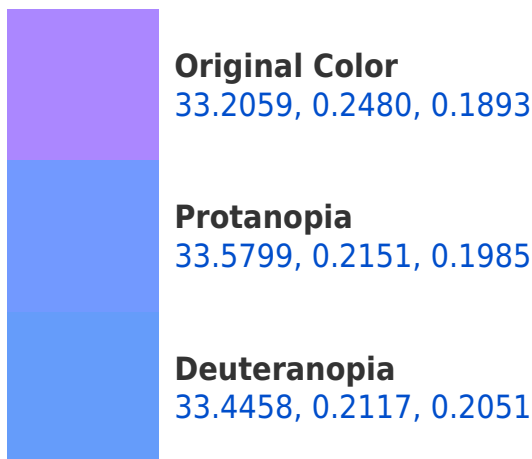


This preview shows how white text looks on a background with the Yxy color 33.2059, 0.2480, 0.1893.

# 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





## Tritanopia

33.0421, 0.2992, 0.3096

# Trichromacy



**Original Color**

33.2059, 0.2480, 0.1893

**Protanomaly**

32.9287, 0.2252, 0.1935

**Deuteranomaly**

32.6437, 0.2217, 0.1968

**Tritanomaly**

32.8235, 0.2787, 0.2576

# Monochromacy



**Original Color**

33.2059, 0.2480, 0.1893

**Achromatopsia**

34.6704, 0.3127, 0.3290

**Achromatomaly**

33.4943, 0.2863, 0.2682

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.2059, 0.2480, 0.1893 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(171, 135, 255)` looks like.

```
.text, #text, p{  
    color:rgb(171, 135, 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(171, 135, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 135, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 33.2059, 0.2480, 0.1893 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(171, 135, 255) }
```

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

```
.border{ border-color:rgb(171, 135, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 135, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 135, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 135, 255);  
box-shadow:4px 4px 4px 4px rgb(171, 135,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.2059, 0.2480, 0.1893 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 135, 255) }
```

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

```
.background{ background-color: rgb(171,  
135, 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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