

# Converting Colors

$Y_{xy}(33.7661, 0.2412, 0.1813)$

Have a look what the booklet for  
Yxy(33.7661, 0.2412, 0.1813)  
contains.

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**Color**

**Yxy(33.0940, 0.2472, 0.1890)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA87FF
RGB	170, 135, 255
RGB Percent	67%, 53%, 100%
CMY	0.3335, 0.4705, 0.0000
CMYK	0.33, 0.47, 0.00, 0.00
HSL	257°, 100%, 76%
HSV	257°, 47%, 100%
XYZ	43.2849, 33.0940, 98.7217
YIQ	159.1450, -17.6600, 44.7400

# Conversions

## Conversions Part 2

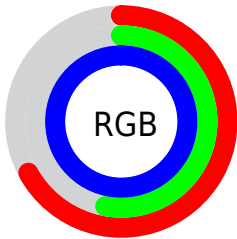
<b>Format</b>	<b>Color</b>
<b>RYB</b>	170, 135, 255
Decimal	11175935
CIELab	64.24, 38.83, -55.23
CIELCh	64, 67.520, 305.110
Yxy	33.0940, 0.2472, 0.1890
Android (android.graphics.Color)	4289366015 (0xFFAA87FF)
YUV	159.1450, 47.2565, 9.5198
Hunter-Lab	57.5274, 33.6343, -61.4773

# Details

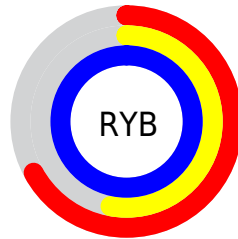
The Yxy color **33.0940, 0.2472, 0.1890** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **88.4957, 0.3582, 0.4550**, and the grayscale version is **34.5255, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.1092, 0.2955, 0.2603**, and **13.9953, 0.2272, 0.1566** is the 20% darker color. If you saturate the color by 10%, you get **24.9324, 0.2297, 0.1569**, and if you desaturate by 10%, it is **43.2375, 0.2640, 0.2218**.

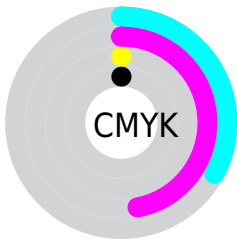
# Distribution



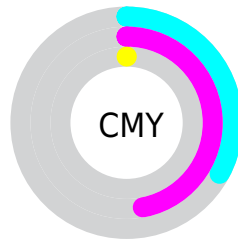
- Red (67%)
- Green (53%)
- Blue (100%)



- 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 33.0940, 0.2472, 0.1890 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 33.0940, 0.2472, 0.1890 by changing the saturation by 10% instead.




 33.0940, 0.2472,  
0.1890


 33.0940, 0.2472,  
0.1890


316.0731, 0.2819,  
0.2541

 22.1985, 0.2384,  
0.1746


 64.5223, 0.2600,  
0.2113

 14.0028, 0.2271,  
0.1573


 85.8238, 0.2648,  
0.2201

 8.1226, 0.2124,  
0.1362


 111.3627, 0.2688,  
0.2277

 4.1735, 0.1925,  
0.1105

141.5235, 0.2722,  
0.2343

 1.7711, 0.1651,  
0.0794

176.6906, 0.2751,  
0.2401

 0.4691, 0.1274,  
0.0392


217.2483, 0.2777,


 0.0000, 0.0609,


0.2453


0.0000


263.5810, 0.2799,  
0.2499


 0.0000, 0.0000,  
0.0000


 33.0940, 0.2472,  
0.1890


 33.0940, 0.2472,  
0.1890

 24.9324, 0.2297,  
0.1569

 43.2375, 0.2640,  
0.2218


 18.6161, 0.2122,  
0.1273


 55.4832, 0.2794,  
0.2537

 13.9933, 0.1958,  
0.1024

 69.9435, 0.2932,  
0.2837

 10.8863, 0.1816,  
0.0838

 86.7225, 0.3052,  
0.3112

 9.0705, 0.1703,  
0.0722

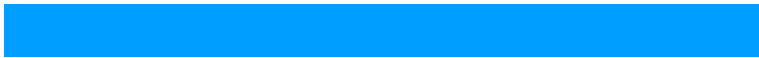
100.0000, 0.3127,  
0.3290

■ 8.6857, 0.1675,  
0.0696

# Harmonies

## Analogous

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



33.0940, 0.1795, 0.1794



33.0940, 0.2472, 0.1890



33.0940, 0.3478, 0.2244

# Triad

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



33.0940, 0.2472, 0.1890



33.0940, 0.5034, 0.4179



33.0940, 0.1817, 0.3658

# Complementary

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



33.0940, 0.2472, 0.1890



88.4957, 0.3582, 0.4550

# 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.



33.0940, 0.2551, 0.4817



33.0940, 0.2472, 0.1890



33.0940, 0.4400, 0.4879

# Square

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



33.0940, 0.2472, 0.1890



33.0940, 0.5134, 0.3463



33.0940, 0.3498, 0.5261



33.0940, 0.1464, 0.2597



# Rectangle

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



33.0940, 0.2472, 0.1890



33.0940, 0.4207, 0.2597



33.0940, 0.3498, 0.5261



33.0940, 0.2023, 0.4073

# Sweetspot

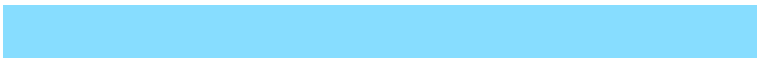
The Sweet Spot groups the original color and five complimentary colors.



33.0946, 0.2472, 0.1890



74.8123, 0.2970, 0.2924



64.0885, 0.2427, 0.2885



15.2711, 0.2943, 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.



33.0946, 0.2472, 0.1890



25.7009, 0.2315, 0.1602



41.2123, 0.2956, 0.2064



17.6339, 0.3024, 0.3047



4.6044, 0.1689, 0.0704



0.5014, 0.1805, 0.0768



# Inverse Universe

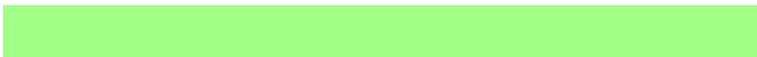
The Inverse Universe completely reimagines the original color for something new.



43.7643, 0.3501, 0.2438



37.7180, 0.3600, 0.2297



80.8485, 0.3201, 0.4719



18.2049, 0.3183, 0.3123



12.8740, 0.4116, 0.2041

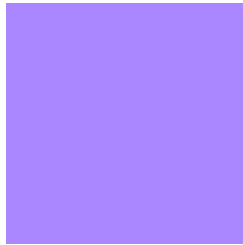


1.2725, 0.3987, 0.1970



# Previews

## White Background



This preview shows how the Yxy color 33.0940, 0.2472, 0.1890 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

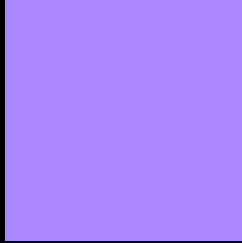
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.0940, 0.2472, 0.1890 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

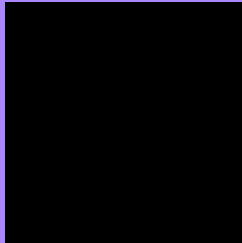
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.0940, 0.2472, 0.1890**

## **Background**



This preview shows how black text looks on a background with the Yxy color 33.0940, 0.2472, 0.1890.



This preview shows how white text looks on a background with the Yxy color 33.0940, 0.2472, 0.1890.

# 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

33.0940, 0.2472, 0.1890

### Protanopia

33.2539, 0.2148, 0.1972

### Deuteranopia

33.3884, 0.2112, 0.2050



## Tritanopia

32.9452, 0.2982, 0.3096

# Trichromacy



## Original Color

33.0940, 0.2472, 0.1890



## Protanomaly

32.8461, 0.2245, 0.1933



## Deuteranomaly

32.5681, 0.2211, 0.1966



## Tritanomaly

32.7209, 0.2778, 0.2574

# Monochromacy



## Original Color

33.0940, 0.2472, 0.1890



## 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 33.0940, 0.2472, 0.1890 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(170, 135, 255)` looks like.

```
.text, #text, p{  
    color:rgb(170, 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(170, 135, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 135, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 33.0940, 0.2472, 0.1890 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(170, 135, 255) }
```

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

```
.border{ border-color:rgb(170, 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(170, 135, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 135, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 135, 255);  
box-shadow:4px 4px 4px 4px rgb(170, 135,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.0940, 0.2472, 0.1890 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 135, 255) }
```

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

```
.background{ background-color: rgb(170,  
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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