

# Converting Colors

$Y_{xy}(41.3617, 0.2403, 0.1574)$

Have a look what the booklet for  
Yxy(41.3617, 0.2403, 0.1574)  
contains.

<b>Yxy(36.9879, 0.2767, 0.1967)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(36.9879, 0.2767, 0.1967)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CF84FF
RGB	207, 132, 255
RGB Percent	81%, 52%, 100%
CMY	0.1883, 0.4823, 0.0000
CMYK	0.19, 0.48, 0.00, 0.00
HSL	277°, 100%, 76%
HSV	277°, 48%, 100%
XYZ	52.0313, 36.9879, 99.0230
YIQ	168.4470, 5.2170, 54.1530

# Conversions

## Conversions Part 2

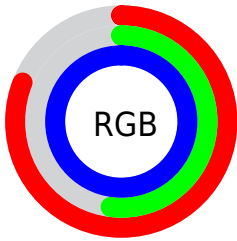
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	207, 132, 255
Decimal	13599999
CIE Lab	67.27, 50.11, -50.21
CIE LCh	67, 70.932, 314.944
Yxy	36.9879, 0.2767, 0.1967
Android (android.graphics.Color)	4291790079 (0xFFCF84FF)
YUV	168.4470, 42.6706, 33.8110
Hunter-Lab	60.8177, 46.2810, -53.9633

# Details

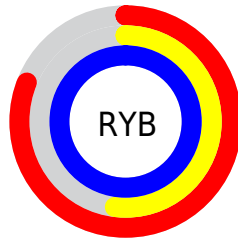
The Yxy color  $36.9879, 0.2767, 0.1967$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $82.8934, 0.3331, 0.4700$ , and the grayscale version is  $39.1729, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $64.0206, 0.3158, 0.2624$ , and  $16.2986, 0.2639, 0.1678$  is the 20% darker color. If you saturate the color by 10%, you get  $29.5071, 0.2665, 0.1699$ , and if you desaturate by 10%, it is  $46.2491, 0.2861, 0.2251$ .

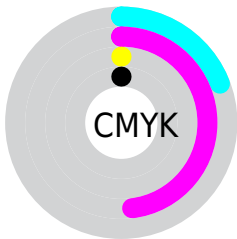
# Distribution



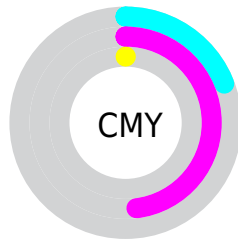
- Red (81%)
- Green (52%)
- Blue (100%)



- Red (81%)
- Yellow (52%)
- Blue (100%)



- Cyan (19%)
- Magenta (48%)
- Yellow (0%)
- Black (0%)




- Cyan (19%)
- Magenta (48%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.9879, 0.2767, 0.1967 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 36.9879, 0.2767, 0.1967 by changing the saturation by 10% instead.




 36.9879, 0.2767,  
0.1967


 36.9879, 0.2767,  
0.1967


333.2581, 0.2969,  
0.2571

 25.1981, 0.2713,  
0.1835


 70.5542, 0.2844,  
0.2173

 16.2247, 0.2642,  
0.1676


 93.0995, 0.2872,  
0.2254

 9.6833, 0.2547,  
0.1482


 119.9987, 0.2895,  
0.2324

 5.1895, 0.2414,  
0.1244

151.6363, 0.2914,  
0.2386

 2.3589, 0.2221,  
0.0951

188.3967, 0.2931,  
0.2440

 0.8046, 0.1928,  
0.0600

230.6641, 0.2945,

 0.0000, 0.1502,

0.2489

0.0000

278.8232, 0.2958,  
0.2532

0.0000, 0.0000,  
0.0000

36.9879, 0.2767,  
0.1967

36.9879, 0.2767,  
0.1967

29.5071, 0.2665,  
0.1699

46.2491, 0.2861,  
0.2251

23.6797, 0.2559,  
0.1460

57.4049, 0.2945,  
0.2538

19.3612, 0.2452,  
0.1263

70.5599, 0.3019,  
0.2818

16.3813, 0.2349,  
0.1116

85.8107, 0.3083,  
0.3084

14.5058, 0.2252,  
0.1020

100.0000, 0.3127,  
0.3290

■ 14.2317, 0.2236,  
0.1005

# Harmonies

## Analogous

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



36.9879, 0.1965, 0.1781



36.9879, 0.2767, 0.1967



36.9879, 0.3850, 0.2398

# Triad

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



36.9879, 0.2767, 0.1967



36.9879, 0.4887, 0.4424



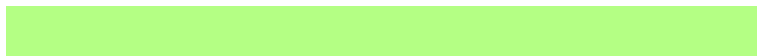
36.9879, 0.1643, 0.3264

# Complementary

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



36.9879, 0.2767, 0.1967



82.8934, 0.3331, 0.4700

# 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.



36.9879, 0.2263, 0.4495



36.9879, 0.2767, 0.1967



36.9879, 0.4128, 0.5082

# Square

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



36.9879, 0.2767, 0.1967



36.9879, 0.5198, 0.3693



36.9879, 0.3178, 0.5250



36.9879, 0.1414, 0.2338



# Rectangle

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



36.9879, 0.2767, 0.1967



36.9879, 0.4546, 0.2789



36.9879, 0.3178, 0.5250



36.9879, 0.1806, 0.3668

# Sweetspot

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



36.9880, 0.2767, 0.1967



76.7512, 0.3047, 0.2933



45.2583, 0.2318, 0.2377



15.7420, 0.3033, 0.2874



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.



36.9880, 0.2767, 0.1967



29.6607, 0.2668, 0.1705



44.2186, 0.3290, 0.2217



17.9257, 0.3075, 0.3051



7.5252, 0.2251, 0.1014



0.7959, 0.2358, 0.1073



# Inverse Universe

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



41.0622, 0.3931, 0.2796



34.5073, 0.4190, 0.2713



78.4495, 0.3000, 0.4676



18.1045, 0.3233, 0.3198



11.6123, 0.5423, 0.2761



1.1513, 0.5118, 0.2593



# Previews

## White Background



This preview shows how the Yxy color 36.9879, 0.2767, 0.1967 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

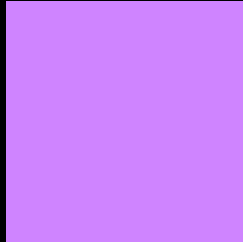
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.9879, 0.2767, 0.1967 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

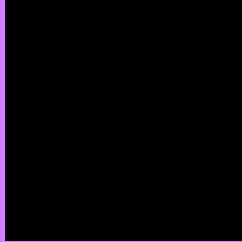
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.9879, 0.2767, 0.1967**

## Background



This preview shows how black text looks on a background with the Yxy color 36.9879, 0.2767, 0.1967.



This preview shows how white text looks on a background with the Yxy color 36.9879, 0.2767, 0.1967.

# 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

36.9879, 0.2767, 0.1967

### Protanopia

37.2989, 0.2246, 0.2111

### Deuteranopia

37.2449, 0.2251, 0.2186



## Tritanopia

36.8365, 0.3416, 0.3132

# Trichromacy



## Original Color

36.9879, 0.2767, 0.1967



## Protanomaly

36.2008, 0.2403, 0.2029



## Deuteranomaly

36.2915, 0.2408, 0.2082



## Tritanomaly

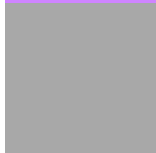
36.3338, 0.3158, 0.2631

# Monochromacy



## Original Color

36.9879, 0.2767, 0.1967



## Achromatopsia

39.1572, 0.3127, 0.3290



## Achromatomaly

37.5579, 0.2987, 0.2708

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.9879, 0.2767, 0.1967 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(207, 132, 255)` looks like.

```
.text, #text, p{  
    color:rgb(207, 132, 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(207, 132, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(207, 132, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 36.9879, 0.2767, 0.1967 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(207, 132, 255) }
```

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

```
.border{ border-color:rgb(207, 132, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(207, 132, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(207, 132, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(207, 132, 255);  
box-shadow:4px 4px 4px 4px rgb(207, 132,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.9879, 0.2767, 0.1967 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(207, 132, 255) }
```

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

```
.background{ background-color: rgb(207,  
132, 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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