

# Converting Colors

$Y_{xy}(37.9991, 0.2993, 0.1945)$

Have a look what the booklet for  
Yxy(37.9991, 0.2993, 0.1945)  
contains.

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**Color**

**Yxy(37.9766, 0.2990, 0.1945)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E978FF
RGB	233, 120, 255
RGB Percent	91%, 47%, 100%
CMY	0.0862, 0.5295, 0.0000
CMYK	0.09, 0.53, 0.00, 0.00
HSL	290°, 100%, 74%
HSV	290°, 53%, 100%
XYZ	58.3805, 37.9766, 98.8954
YIQ	169.1770, 24.0130, 65.9410

# Conversions

## Conversions Part 2

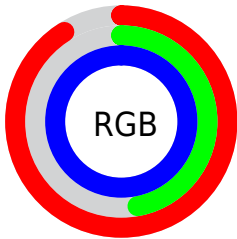
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	233, 120, 255
Decimal	15300863
CIE Lab	68.00, 62.94, -48.85
CIE LCh	68, 79.676, 322.181
Yxy	37.9766, 0.2990, 0.1945
Android (android.graphics.Color)	4293490943 (0xFFE978FF)
YUV	169.1770, 42.3107, 55.9728
Hunter-Lab	61.6252, 61.2576, -52.0103

# Details

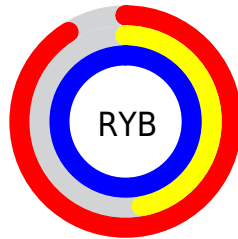
The Yxy color **37.9766, 0.2990, 0.1945** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **78.6229, 0.3159, 0.4938**, and the grayscale version is **39.5431, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.5307, 0.3163, 0.2517**, and **16.8580, 0.2922, 0.1658** is the 20% darker color. If you saturate the color by 10%, you get **31.9478, 0.2951, 0.1734**, and if you desaturate by 10%, it is **45.6523, 0.3026, 0.2185**.

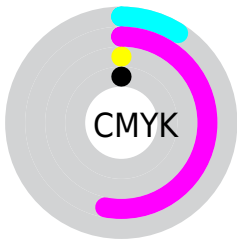
# Distribution



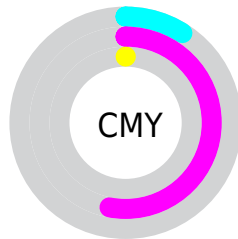
- Red (91%)
- Green (47%)
- Blue (100%)



- Red (91%)
- Yellow (47%)
- Blue (100%)



- Cyan (9%)
- Magenta (53%)
- Yellow (0%)
- Black (0%)




- Cyan (9%)
- Magenta (53%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.9766, 0.2990, 0.1945 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 37.9766, 0.2990, 0.1945 by changing the saturation by 10% instead.





 37.9766, 0.2990,  
0.1945

 37.9766, 0.2990,  
0.1945


337.5196, 0.3086,  
0.2549


 25.9645, 0.2960,  
0.1815


 72.0723, 0.3030,  
0.2149

 16.7971, 0.2920,  
0.1658


 94.9247, 0.3043,  
0.2230

 10.0899, 0.2862,  
0.1469


 122.1593, 0.3054,  
0.2301

 5.4586, 0.2778,  
0.1237

154.1605, 0.3063,  
0.2363

 2.5188, 0.2648,  
0.0954

191.3128, 0.3070,  
0.2418

 0.8860, 0.2435,  
0.0616

234.0004, 0.3076,

 0.0000, 0.2121,

0.2466

0.0000

282.6079, 0.3081,  
0.2510

0.0000, 0.1041,  
0.0000

0.0000, 0.0000,  
0.0000

37.9766, 0.2990,  
0.1945

37.9766, 0.2990,  
0.1945

31.9478, 0.2951,  
0.1734

45.6523, 0.3026,  
0.2185

27.4363, 0.2909,  
0.1561

55.0964, 0.3057,  
0.2441

24.2873, 0.2866,  
0.1432

66.4152, 0.3083,  
0.2705

22.3144, 0.2823,  
0.1349

79.7074, 0.3105,  
0.2966

■ 21.4394, 0.2792,  
0.1312

■ 95.0649, 0.3123,  
0.3218

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



37.9766, 0.2029, 0.1680



37.9766, 0.2990, 0.1945



37.9766, 0.4220, 0.2457

# Triad

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



37.9766, 0.2990, 0.1945



37.9766, 0.4850, 0.4671



37.9766, 0.1412, 0.2943

# Complementary

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



37.9766, 0.2990, 0.1945



78.6229, 0.3159, 0.4938

# 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.



37.9766, 0.1962, 0.4316



37.9766, 0.2990, 0.1945



37.9766, 0.3937, 0.5373

# Square

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



37.9766, 0.2990, 0.1945



37.9766, 0.5372, 0.3867



37.9766, 0.2893, 0.5397



37.9766, 0.1274, 0.2070



# Rectangle

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



37.9766, 0.2990, 0.1945



37.9766, 0.4932, 0.2893



37.9766, 0.2893, 0.5397



37.9766, 0.1546, 0.3363

# Sweetspot

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



37.9756, 0.2990, 0.1945



75.4364, 0.3099, 0.2887



30.7022, 0.2155, 0.1862



15.5528, 0.3095, 0.2833



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.



37.9756, 0.2990, 0.1945



31.4046, 0.2947, 0.1714



39.3413, 0.3626, 0.2394



18.1419, 0.3112, 0.3054



11.2582, 0.2800, 0.1316



1.1343, 0.2849, 0.1343



# Inverse Universe

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



36.6403, 0.4427, 0.3070



30.1964, 0.4879, 0.3048



78.2279, 0.2848, 0.4431



18.0353, 0.3269, 0.3252



11.2084, 0.6170, 0.3173



1.1044, 0.5893, 0.3020



# Previews

## White Background



This preview shows how the Yxy color 37.9766, 0.2990, 0.1945 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

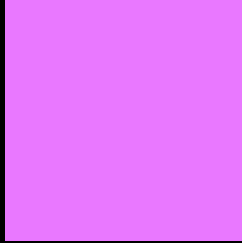
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.9766, 0.2990, 0.1945 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

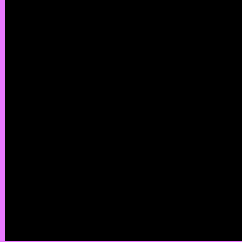
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 37.9766, 0.2990, 0.1945**

## Background



This preview shows how black text looks on a background with the Yxy color 37.9766, 0.2990, 0.1945.



This preview shows how white text looks on a background with the Yxy color 37.9766, 0.2990, 0.1945.

# 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

37.9766, 0.2990, 0.1945

### Protanopia

38.3199, 0.2274, 0.2143

### Deuteranopia

38.3715, 0.2305, 0.2242



## Tritanopia

37.8667, 0.3808, 0.3159

# Trichromacy



## Original Color

37.9766, 0.2990, 0.1945



## Protanomaly

36.5225, 0.2482, 0.2022



## Deuteranomaly

36.6125, 0.2500, 0.2083



## Tritanomaly

37.4216, 0.3494, 0.2649

# Monochromacy



## Original Color

37.9766, 0.2990, 0.1945



## Achromatopsia

39.6755, 0.3127, 0.3290



## Achromatomaly

37.5098, 0.3080, 0.2673

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.9766, 0.2990, 0.1945 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(233, 120, 255)` looks like.

```
.text, #text, p{  
    color:rgb(233, 120, 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(233, 120, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 120, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 37.9766, 0.2990, 0.1945 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(233, 120, 255) }
```

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

```
.border{ border-color:rgb(233, 120, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 120, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 120, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 120, 255);  
box-shadow:4px 4px 4px 4px rgb(233, 120,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.9766, 0.2990, 0.1945 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 120, 255) }
```

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

```
.background{ background-color: rgb(233,  
120, 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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