

# Converting Colors

$Y_{xy}(27.6185, 0.2928, 0.1565)$

Have a look what the booklet for  
Yxy(27.6185, 0.2928, 0.1565)  
contains.

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# Color

**Yxy(27.6851, 0.2931, 0.1567)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E344FF
RGB	227, 68, 255
RGB Percent	89%, 27%, 100%
CMY	0.1100, 0.7331, 0.0001
CMYK	0.11, 0.73, 0.00, 0.00
HSL	291°, 100%, 63%
HSV	291°, 73%, 100%
XYZ	51.7837, 27.6851, 97.2070
YIQ	136.8590, 34.7370, 91.8650

# Conversions

## Conversions Part 2

Format	Color
R <sub>YB</sub>	227, 68, 255
Decimal	14894335
CIE <sub>Lab</sub>	59.60, 82.50, -62.23
CIE <sub>LCh</sub>	60, 103.334, 322.972
Y <sub>xy</sub>	27.6851, 0.2931, 0.1567
Android (android.graphics.Color)	4293084415 (0xFFE344FF)
YUV	136.8590, 58.2435, 79.0537
Hunter-Lab	52.6166, 83.5951, -72.7042

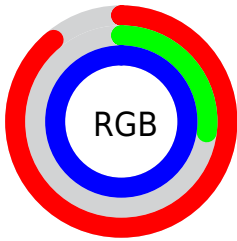
# Details

The Yxy color **27.6851, 0.2931, 0.1567** is a light color, and the websafe version is hex **CC33FF**.

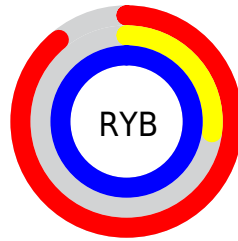
The color can be described as light washed magenta. A complement of this color would be **74.4189, 0.3114, 0.5566**, and the grayscale version is **24.7378, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.4453, 0.3183, 0.2103**, and **12.2467, 0.2825, 0.1330** is the 20% darker color. If you saturate the color by 10%, you get **24.6257, 0.2892, 0.1442**, and if you desaturate by 10%, it is **32.1009, 0.2969, 0.1736**.

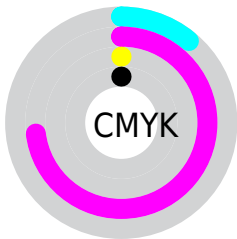
# Distribution



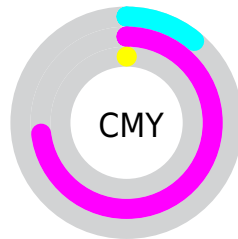
- Red (89%)
- Green (27%)
- Blue (100%)



- Red (89%)
- Yellow (27%)
- Blue (100%)



- Cyan (11%)
- Magenta (73%)
- Yellow (0%)
- Black (0%)




- Cyan (11%)
- Magenta (73%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.6851, 0.2931, 0.1567 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 27.6851, 0.2931, 0.1567 by changing the saturation by 10% instead.





 27.6851, 0.2931,  
0.1567


 27.6851, 0.2931,  
0.1567


290.9591, 0.3078,  
0.2333

 18.0884, 0.2884,  
0.1408


 55.9813, 0.2993,  
0.1822


 11.0135, 0.2818,  
0.1221


 75.4496, 0.3014,  
0.1924

 6.0759, 0.2725,  
0.1002


 98.9772, 0.3031,  
0.2014

 2.8913, 0.2589,  
0.0749

 126.9486, 0.3044,  
0.2093

 1.0752, 0.2381,  
0.0469

 159.7481, 0.3055,  
0.2163

 0.0000, 0.2095,  
0.0000

197.7600, 0.3064,


 0.0000, 0.1543,


0.2226


0.0000


241.3689, 0.3072,  
0.2282


 0.0000, 0.0000,  
0.0000


 27.6851, 0.2931,  
0.1567


 27.6851, 0.2931,  
0.1567


 24.6257, 0.2892,  
0.1442


 32.1009, 0.2969,  
0.1736


 22.7312, 0.2852,  
0.1363


 38.0239, 0.3005,  
0.1944


 21.9332, 0.2825,  
0.1330

 45.5888, 0.3037,  
0.2180

 54.9142, 0.3065,  
0.2434

 66.1079, 0.3088,  
0.2696

 79.2688, 0.3108,  
0.2957

 94.4890, 0.3123,  
0.3209

99.9989, 0.3127,  
0.3290

# Harmonies

## Analogous

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



27.6851, 0.1689, 0.1252



27.6851, 0.2931, 0.1567



27.6851, 0.4698, 0.2175

# Triad

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



27.6851, 0.2931, 0.1567



27.6851, 0.5157, 0.4840



27.6851, 0.0892, 0.2644

# Complementary

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



27.6851, 0.2931, 0.1567



74.4189, 0.3114, 0.5566

# 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.



27.6851, 0.1451, 0.4745



27.6851, 0.2931, 0.1567



27.6851, 0.3855, 0.6029

# Square

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



27.6851, 0.2931, 0.1567



27.6851, 0.6037, 0.3760



27.6851, 0.2552, 0.6446



27.6851, 0.0806, 0.1602



# Rectangle

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



27.6851, 0.2931, 0.1567



27.6851, 0.5705, 0.2676



27.6851, 0.2552, 0.6446



27.6851, 0.1014, 0.3233

# Sweetspot

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



27.6863, 0.2931, 0.1567



67.7205, 0.3091, 0.2730



16.8358, 0.1785, 0.1220



13.7896, 0.3085, 0.2659



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.



27.6863, 0.2931, 0.1567



23.6076, 0.2873, 0.1400



29.0982, 0.3952, 0.2188



18.1543, 0.3114, 0.3054



11.5147, 0.2832, 0.1334



1.1569, 0.2877, 0.1359



# Inverse Universe

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



26.2458, 0.5317, 0.3072



22.5921, 0.5904, 0.3127



74.4474, 0.2802, 0.4919



18.0314, 0.3271, 0.3255



11.1959, 0.6198, 0.3188

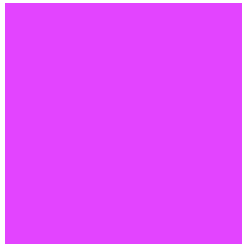


1.1026, 0.5929, 0.3040



# Previews

## White Background



This preview shows how the Yxy color 27.6851, 0.2931, 0.1567 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

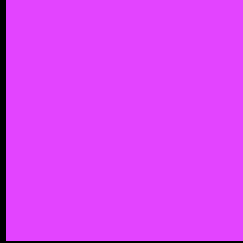
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 27.6851, 0.2931, 0.1567 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

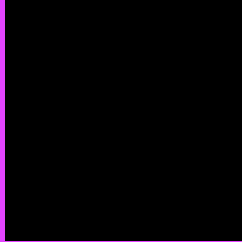
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 27.6851, 0.2931, 0.1567**

## **Background**



This preview shows how black text looks on a background with the Yxy color 27.6851, 0.2931, 0.1567.



This preview shows how white text looks on a background with the Yxy color 27.6851, 0.2931, 0.1567.

# 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

27.6851, 0.2931, 0.1567

### Protanopia

28.0024, 0.1988, 0.1775

### Deuteranopia

28.1174, 0.1998, 0.1939



## Tritanopia

27.3932, 0.4229, 0.3193

# Trichromacy



## Original Color

27.6851, 0.2931, 0.1567



## Protanomaly

24.6579, 0.2204, 0.1573



## Deuteranomaly

24.1838, 0.2194, 0.1640



## Tritanomaly

26.2746, 0.3714, 0.2437

# Monochromacy



## Original Color

27.6851, 0.2931, 0.1567



## Achromatopsia

25.0158, 0.3127, 0.3290



## Achromatomaly

23.4297, 0.3057, 0.2340

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.6851, 0.2931, 0.1567 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(227, 68, 255)` looks like.

```
.text, #text, p{  
    color:rgb(227, 68, 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(227, 68, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 68, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 27.6851, 0.2931, 0.1567 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(227, 68, 255) }
```

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

```
.border{ border-color:rgb(227, 68, 255) }
```

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

Here you see how a box with a 4 pixel rgb(227, 68, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 68, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 68, 255);  
box-shadow:4px 4px 4px 4px rgb(227, 68,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 27.6851, 0.2931, 0.1567 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 68, 255) }
```

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

```
.background{ background-color: rgb(227, 68,  
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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