

# Converting Colors

$Y_{xy}(27.7943, 0.3168, 0.1871)$

Have a look what the booklet for  
Yxy(27.7943, 0.3168, 0.1871)  
contains.

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# Color

**Yxy(27.7278, 0.3172, 0.1872)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DE57E0
RGB	222, 87, 224
RGB Percent	87%, 34%, 88%
CMY	0.1295, 0.6587, 0.1215
CMYK	0.01, 0.61, 0.00, 0.12
HSL	299°, 69%, 61%
HSV	299°, 61%, 88%
XYZ	46.9832, 27.7278, 73.4076
YIQ	142.9830, 36.4830, 71.2270

# Conversions

## Conversions Part 2

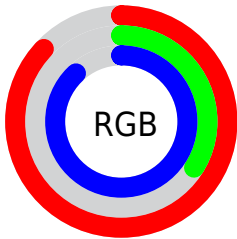
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	222, 87, 224
Decimal	14571488
CIE Lab	59.64, 69.30, -44.95
CIE LCh	60, 82.601, 327.028
Yxy	27.7278, 0.3172, 0.1872
Android (android.graphics.Color)	4292761568 (0xFFDE57E0)
YUV	142.9830, 39.9414, 69.2979
Hunter-Lab	52.6572, 67.1160, -45.7941

# Details

The Yxy color **27.7278, 0.3172, 0.1872** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light muted magenta. A complement of this color would be **56.1352, 0.3044, 0.5257**, and the grayscale version is **27.2914, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.4265, 0.3177, 0.2221**, and **10.9843, 0.3134, 0.1540** is the 20% darker color. If you saturate the color by 10%, you get **24.5936, 0.3175, 0.1722**, and if you desaturate by 10%, it is **31.9897, 0.3168, 0.2060**.

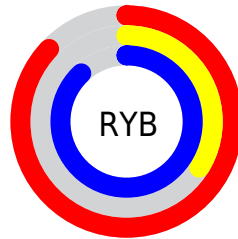
# Distribution



Red (87%)

Green (34%)

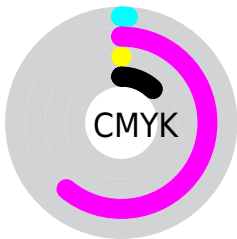
Blue (88%)



Red (87%)

Yellow (34%)

Blue (88%)

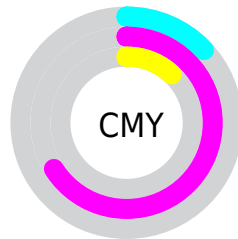


Cyan (1%)

Magenta (61%)

Yellow (0%)

Black (12%)



Cyan (13%)

Magenta (66%)

Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 27.7278, 0.3172, 0.1872 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 27.7278, 0.3172, 0.1872 by changing the saturation by 10% instead.




 27.7278, 0.3172,  
0.1872


 27.7278, 0.3172,  
0.1872


291.1639, 0.3183,  
0.2536


 18.1206, 0.3160,  
0.1723

 56.0496, 0.3183,  
0.2101


 11.0366, 0.3139,  
0.1542


 75.5329, 0.3185,  
0.2191

 6.0914, 0.3103,  
0.1320


 99.0770, 0.3186,  
0.2268

 2.9008, 0.3039,  
0.1046

 127.0664, 0.3186,  
0.2336

 1.0801, 0.2919,  
0.0713

159.8854, 0.3186,  
0.2395

 0.0000, 0.2773,  
0.0000

197.9184, 0.3185,

 0.0000, 0.2129,

0.2448

0.0000

241.5498, 0.3184,  
0.2494

 0.0000, 0.0000,  
0.0000


 27.7278, 0.3172,  
0.1872


 27.7278, 0.3172,  
0.1872


 24.5936, 0.3175,  
0.1722


 31.9897, 0.3168,  
0.2060


 22.4754, 0.3175,  
0.1614


 37.4699, 0.3161,  
0.2278

 21.2453, 0.3174,  
0.1550

 44.2539, 0.3154,  
0.2516

 20.7052, 0.3172,  
0.1521

 52.4185, 0.3146,  
0.2765

 62.0347, 0.3137,  
0.3016

■ 73.1685, 0.3128,  
0.3262

■ 85.8818, 0.3119,  
0.3498

■ 92.8531, 0.3116,  
0.3610

■ 92.9066, 0.3118,  
0.3609

# Harmonies

## Analogous

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



27.7278, 0.2032, 0.1542



27.7278, 0.3172, 0.1872



27.7278, 0.4595, 0.2457

# Triad

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



27.7278, 0.3172, 0.1872



27.7278, 0.4839, 0.4896



27.7278, 0.1171, 0.2655

# Complementary

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



27.7278, 0.3172, 0.1872



56.1352, 0.3044, 0.5257

# 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.



27.7278, 0.1664, 0.4199



27.7278, 0.3172, 0.1872



27.7278, 0.3766, 0.5719

# Square

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



27.7278, 0.3172, 0.1872



27.7278, 0.5574, 0.3980



27.7278, 0.2621, 0.5648



27.7278, 0.1104, 0.1812



# Rectangle

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



27.7278, 0.3172, 0.1872



27.7278, 0.5343, 0.2932



27.7278, 0.2621, 0.5648



27.7278, 0.1281, 0.3098

# Sweetspot

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



27.7291, 0.3172, 0.1872



74.0007, 0.3143, 0.2841



14.6061, 0.1946, 0.1354



15.0729, 0.3146, 0.2768



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.



27.7291, 0.3172, 0.1872



32.1964, 0.3175, 0.1692



25.1319, 0.4014, 0.2502



13.9247, 0.3136, 0.3059



12.0548, 0.3172, 0.1521



0.8389, 0.3178, 0.1525



# Inverse Universe

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



23.3924, 0.5034, 0.3274



25.9607, 0.5620, 0.3278



57.6549, 0.2724, 0.4320



13.7038, 0.3290, 0.3287



9.2300, 0.6384, 0.3291

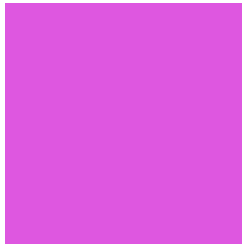


0.6410, 0.6335, 0.3264



# Previews

## White Background



This preview shows how the Yxy color 27.7278, 0.3172, 0.1872 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

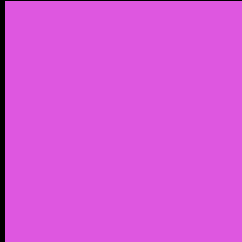
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 27.7278, 0.3172, 0.1872 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

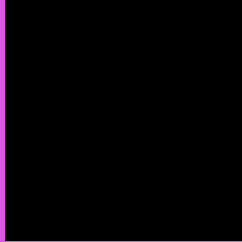
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 27.7278, 0.3172, 0.1872**

## Background



This preview shows how black text looks on a background with the Yxy color 27.7278, 0.3172, 0.1872.



This preview shows how white text looks on a background with the Yxy color 27.7278, 0.3172, 0.1872.

# 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

27.7278, 0.3172, 0.1872

### Protanopia

28.1498, 0.2001, 0.1780

### Deuteranopia

27.9960, 0.2303, 0.2241



## Tritanopia

27.6477, 0.4211, 0.3193

# Trichromacy



## Original Color

27.7278, 0.3172, 0.1872



## Protanomaly

25.6097, 0.2273, 0.1730



## Deuteranomaly

25.9033, 0.2550, 0.2021



## Tritanomaly

26.9374, 0.3819, 0.2629

# Monochromacy



## Original Color

27.7278, 0.3172, 0.1872



## Achromatopsia

27.4677, 0.3127, 0.3290



## Achromatomaly

25.9151, 0.3160, 0.2596

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 27.7278, 0.3172, 0.1872 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(222, 87, 224)` looks like.

```
.text, #text, p{  
    color:rgb(222, 87, 224)  
}
```

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(222, 87, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 87, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 27.7278, 0.3172, 0.1872 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(222, 87, 224) }
```

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

```
.border{ border-color:rgb(222, 87, 224) }
```

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

Here you see how a box with a 4 pixel rgb(222, 87, 224) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 87, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 87, 224);  
box-shadow:4px 4px 4px 4px rgb(222, 87,  
224) }
```



# Background

The CSS property to change the background color of an element to  $Yxy\ 27.7278, 0.3172, 0.1872$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 87, 224) }
```

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

```
.background{ background-color: rgb(222, 87,  
224) }
```

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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