

# Converting Colors

$Y_{xy}(29.0266, 0.2563, 0.1896)$

Have a look what the booklet for  
Yxy(29.0266, 0.2563, 0.1896)  
contains.

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# Color

**Yxy(28.9440, 0.2559, 0.1887)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA7BEF
RGB	170, 123, 239
RGB Percent	67%, 48%, 94%
CMY	0.3331, 0.5178, 0.0627
CMYK	0.29, 0.49, 0.00, 0.06
HSL	264°, 78%, 71%
HSV	264°, 49%, 94%
XYZ	39.2516, 28.9440, 85.1908
YIQ	150.2770, -9.2240, 46.0400

# Conversions

## Conversions Part 2

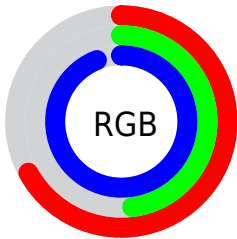
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">170, 123, 239</a>
Decimal	<a href="#">11172847</a>
CIELab	<a href="#">60.73, 41.60, -52.00</a>
CIELCh	<a href="#">61, 66.589, 308.663</a>
Yxy	<a href="#">28.9440, 0.2559, 0.1887</a>
Android (android.graphics.Color)	<a href="#">4289362927 (0xFFAA7BEF)</a>
YUV	<a href="#">150.2770, 43.7404, 17.2971</a>
Hunter-Lab	<a href="#">53.7996, 36.0821, -56.2249</a>

# Details

The Yxy color  $28.9440, 0.2559, 0.1887$  is a light color, and the websafe version is hex  $9966CC$ . A complement of this color would be  $74.3685, 0.3496, 0.4629$ , and the grayscale version is  $30.4382, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $54.7646, 0.2953, 0.2466$ , and  $11.7199, 0.2367, 0.1561$  is the 20% darker color. If you saturate the color by 10%, you get  $22.2240, 0.2407, 0.1586$ , and if you desaturate by 10%, it is  $37.2845, 0.2703, 0.2199$ .

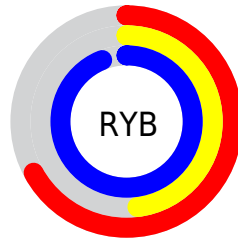
# Distribution



Red (67%)

Green (48%)

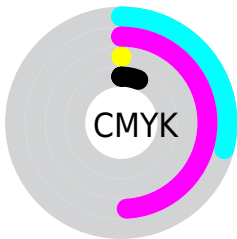
Blue (94%)



Red (67%)

Yellow (48%)

Blue (94%)

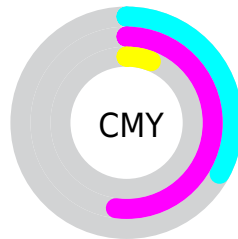


Cyan (29%)

Magenta (49%)

Yellow (0%)

Black (6%)



Cyan (33%)

Magenta (52%)


Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.9440, 0.2559, 0.1887 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 28.9440, 0.2559, 0.1887 by changing the saturation by 10% instead.





 28.9440, 0.2559,  
0.1887


 28.9440, 0.2559,  
0.1887


296.9506, 0.2872,  
0.2552

 19.0385, 0.2475,  
0.1737


 57.9881, 0.2677,  
0.2118

 11.6981, 0.2367,  
0.1554


 77.8955, 0.2721,  
0.2208

 6.5384, 0.2220,  
0.1330


 101.9055, 0.2757,  
0.2285

 3.1752, 0.2017,  
0.1054

130.4027, 0.2787,  
0.2353

 1.2239, 0.1725,  
0.0720

163.7714, 0.2813,  
0.2412

 0.0811, 0.1333,  
0.0097

202.3961, 0.2835,


 0.0000, 0.0114,

0.2464


0.0000

246.6610, 0.2855,  
0.2511

 0.0000, 0.0000,  
0.0000

 28.9440, 0.2559,  
0.1887


 28.9440, 0.2559,  
0.1887


 22.2240, 0.2407,  
0.1586


 37.2845, 0.2703,  
0.2199


 17.0086, 0.2253,  
0.1312


 47.3437, 0.2834,  
0.2507

 13.1710, 0.2104,  
0.1083

 59.2158, 0.2950,  
0.2801

 10.5610, 0.1969,  
0.0911

 72.9870, 0.3052,  
0.3075

 8.9635, 0.1854,  
0.0800

 88.7380, 0.3139,  
0.3325

■ 8.7736, 0.1838,  
0.0786

■ 99.0129, 0.3220,  
0.3444

# Harmonies

## Analogous

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



28.9440, 0.1825, 0.1755



28.9440, 0.2559, 0.1887



28.9440, 0.3622, 0.2275

# Triad

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



28.9440, 0.2559, 0.1887



28.9440, 0.5025, 0.4277



28.9440, 0.1717, 0.3516

# Complementary

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



28.9440, 0.2559, 0.1887



74.3685, 0.3496, 0.4629

# 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.



28.9440, 0.2424, 0.4755



28.9440, 0.2559, 0.1887



28.9440, 0.4323, 0.4988

# Square

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



28.9440, 0.2559, 0.1887



28.9440, 0.5216, 0.3541



28.9440, 0.3381, 0.5323



28.9440, 0.1408, 0.2474



# Rectangle

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



28.9440, 0.2559, 0.1887



28.9440, 0.4364, 0.2649



28.9440, 0.3381, 0.5323



28.9440, 0.1910, 0.3944

# Sweetspot

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



28.9451, 0.2559, 0.1887



73.9181, 0.2988, 0.2899



48.4046, 0.2375, 0.2691



15.1253, 0.2965, 0.2840



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.



28.9451, 0.2559, 0.1887



25.9843, 0.2412, 0.1596



36.7901, 0.3075, 0.2077



15.5418, 0.3043, 0.3050



4.9198, 0.1854, 0.0795



0.4659, 0.2001, 0.0876



# Inverse Universe

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



36.3153, 0.3660, 0.2547



35.7357, 0.3817, 0.2420



68.2874, 0.3120, 0.4801



15.9165, 0.3200, 0.3151



11.2473, 0.4563, 0.2287

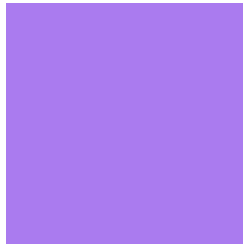


0.9553, 0.4336, 0.2162



# Previews

## White Background



This preview shows how the Yxy color 28.9440, 0.2559, 0.1887 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

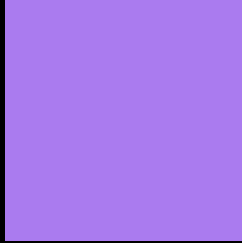
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.9440, 0.2559, 0.1887 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

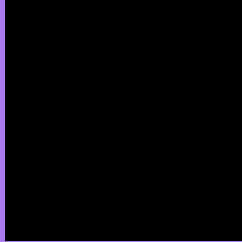
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.9440, 0.2559, 0.1887**

## **Background**



This preview shows how black text looks on a background with the Yxy color 28.9440, 0.2559, 0.1887.



This preview shows how white text looks on a background with the Yxy color 28.9440, 0.2559, 0.1887.

# 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

28.9440, 0.2559, 0.1887

### Protanopia

29.3517, 0.2036, 0.1828

### Deuteranopia

29.2947, 0.2131, 0.2073



## Tritanopia

28.8480, 0.3135, 0.3121

# Trichromacy



## Original Color

28.9440, 0.2559, 0.1887



## Protanomaly

28.6588, 0.2183, 0.1836



## Deuteranomaly

28.4440, 0.2250, 0.1976



## Tritanomaly

28.5847, 0.2905, 0.2590

# Monochromacy



## Original Color

28.9440, 0.2559, 0.1887



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

29.3017, 0.2904, 0.2682

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.9440, 0.2559, 0.1887 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, 123, 239)` looks like.

```
.text, #text, p{  
    color:rgb(170, 123, 239)  
}
```

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, 123, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 123, 239) }
```

## Border

The CSS property to change the border of an element to Yxy 28.9440, 0.2559, 0.1887 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, 123, 239) }
```

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

```
.border{ border-color:rgb(170, 123, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 123, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 123, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 123, 239);  
box-shadow:4px 4px 4px 4px rgb(170, 123,  
239) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.9440, 0.2559, 0.1887 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 123, 239) }
```

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

```
.background{ background-color: rgb(170,  
123, 239) }
```

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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