

# Converting Colors

$Y_{xy}(39.8297, 0.2799, 0.2188)$

Have a look what the booklet for  
Yxy(39.8297, 0.2799, 0.2188)  
contains.

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# Color

**Yxy(39.8775, 0.2798, 0.2188)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C993F5
RGB	201, 147, 245
RGB Percent	79%, 58%, 96%
CMY	0.2119, 0.4235, 0.0393
CMYK	0.18, 0.40, 0.00, 0.04
HSL	273°, 83%, 77%
HSV	273°, 40%, 96%
XYZ	50.9951, 39.8775, 91.3829
YIQ	174.3180, 0.7260, 41.9260

# Conversions

## Conversions Part 2

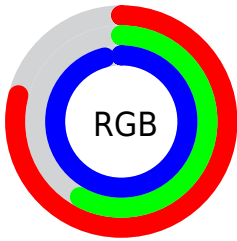
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">201, 147, 245</a>
Decimal	<a href="#">13210613</a>
CIELab	<a href="#">69.38, 38.26, -41.44</a>
CIElCh	<a href="#">69, 56.404, 312.714</a>
Yxy	<a href="#">39.8775, 0.2798, 0.2188</a>
Android (android.graphics.Color)	<a href="#">4291400693 (0xFFC993F5)</a>
YUV	<a href="#">174.3180, 34.8462, 23.4001</a>
Hunter-Lab	<a href="#">63.1486, 33.6359, -41.5950</a>

# Details

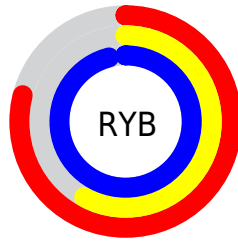
The Yxy color  $39.8775, 0.2798, 0.2188$  is a light color, and the websafe version is hex `CC99FF`. A complement of this color would be  $78.4831, 0.3347, 0.4421$ , and the grayscale version is  $42.3172, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $70.7211, 0.3151, 0.2772$ , and  $17.8350, 0.2689, 0.1930$  is the 20% darker color. If you saturate the color by 10%, you get  $31.5822, 0.2688, 0.1898$ , and if you desaturate by 10%, it is  $49.9076, 0.2898, 0.2481$ .

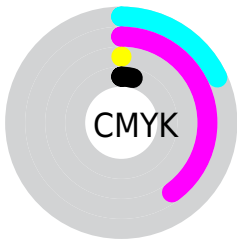
# Distribution



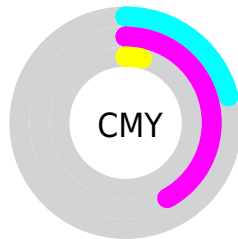
- Red (79%)
- Green (58%)
- Blue (96%)



- Red (79%)
- Yellow (58%)
- Blue (96%)



- Cyan (18%)
- Magenta (40%)
- Yellow (0%)
- Black (4%)




- Cyan (21%)
- Magenta (42%)
- Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.8775, 0.2798, 0.2188 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 39.8775, 0.2798, 0.2188 by changing the saturation by 10% instead.





 39.8775, 0.2798,  
0.2188


 39.8775, 0.2798,  
0.2188

345.6070, 0.2977,  
0.2701

 27.4430, 0.2751,  
0.2072


 74.9769, 0.2865,  
0.2365

 17.9062, 0.2689,  
0.1931


 98.4107, 0.2890,  
0.2434

 10.8827, 0.2607,  
0.1756


126.2797, 0.2910,  
0.2494

 5.9880, 0.2491,  
0.1533

158.9683, 0.2928,  
0.2546

 2.8378, 0.2320,  
0.1247

196.8610, 0.2943,  
0.2592

 1.0476, 0.2055,  
0.0879

240.3420, 0.2955,

 0.0000, 0.1691,

0.2632

0.0000


289.7959, 0.2967,  
0.2668


 0.0000, 0.0000,  
0.0000

 39.8775, 0.2798,  
0.2188


 39.8775, 0.2798,  
0.2188


 31.5822, 0.2688,  
0.1898


 49.9076, 0.2898,  
0.2481


 24.9106, 0.2570,  
0.1623

 61.7647, 0.2986,  
0.2767


 19.7461, 0.2448,  
0.1380

 75.5398, 0.3062,  
0.3038

 15.9537, 0.2328,  
0.1180

 91.3166, 0.3127,  
0.3290

 13.3729, 0.2214,  
0.1033

 99.3717, 0.3185,  
0.3386

■ 11.7382, 0.2109,  
0.0936

■ 11.7366, 0.2109,  
0.0936

# Harmonies

## Analogous

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



39.8775, 0.2155, 0.2052



39.8775, 0.2798, 0.2188



39.8775, 0.3637, 0.2540

# Triad

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



39.8775, 0.2798, 0.2188



39.8775, 0.4595, 0.4230



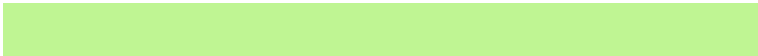
39.8775, 0.1967, 0.3364

# Complementary

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



39.8775, 0.2798, 0.2188



78.4831, 0.3347, 0.4421

# 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.



39.8775, 0.2517, 0.4257



39.8775, 0.2798, 0.2188



39.8775, 0.4035, 0.4706

# Square

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



39.8775, 0.2798, 0.2188



39.8775, 0.4759, 0.3636



39.8775, 0.3275, 0.4790



39.8775, 0.1729, 0.2603



# Rectangle

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



39.8775, 0.2798, 0.2188



39.8775, 0.4178, 0.2867



39.8775, 0.3275, 0.4790



39.8775, 0.2118, 0.3668

# Sweetspot

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



39.8791, 0.2798, 0.2188



79.4920, 0.3048, 0.2985



50.1034, 0.2472, 0.2626



16.5779, 0.3038, 0.2950



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.



39.8791, 0.2798, 0.2188



36.1669, 0.2709, 0.1952



46.5796, 0.3215, 0.2346



16.3766, 0.3066, 0.3052



6.4070, 0.2125, 0.0944



0.6241, 0.2254, 0.1015



# Inverse Universe

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



44.0461, 0.3678, 0.2818



41.5388, 0.3845, 0.2725



73.7648, 0.3044, 0.4461



16.6063, 0.3223, 0.3184



11.0921, 0.5175, 0.2625

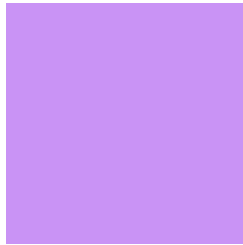


0.9953, 0.4867, 0.2455



# Previews

## White Background



This preview shows how the Yxy color 39.8775, 0.2798, 0.2188 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

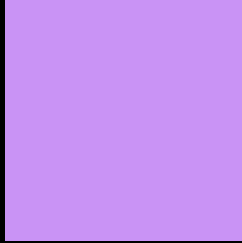
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.8775, 0.2798, 0.2188 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

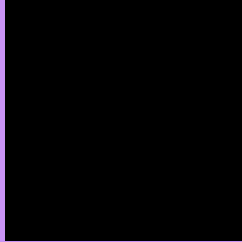
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 39.8775, 0.2798, 0.2188**

## Background



This preview shows how black text looks on a background with the Yxy color 39.8775, 0.2798, 0.2188.



This preview shows how white text looks on a background with the Yxy color 39.8775, 0.2798, 0.2188.

# 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

39.8775, 0.2798, 0.2188

### Protanopia

40.3464, 0.2323, 0.2205

### Deuteranopia

40.1958, 0.2421, 0.2362



## Tritanopia

39.7546, 0.3268, 0.3120

# Trichromacy



## Original Color

39.8775, 0.2798, 0.2188



## Protanomaly

39.7880, 0.2476, 0.2195



## Deuteranomaly

39.4449, 0.2543, 0.2285



## Tritanomaly

39.6215, 0.3088, 0.2751

# Monochromacy



## Original Color

39.8775, 0.2798, 0.2188



## Achromatopsia

42.3268, 0.3127, 0.3290



## Achromatomaly

40.9114, 0.3005, 0.2829

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.8775, 0.2798, 0.2188 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(201, 147, 245)` looks like.

```
.text, #text, p{  
    color:rgb(201, 147, 245)  
}
```

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(201, 147, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(201, 147, 245) }
```

## Border

The CSS property to change the border of an element to Yxy 39.8775, 0.2798, 0.2188 is called "border". The border property can be set on classes, ids or directly on the HTML element.

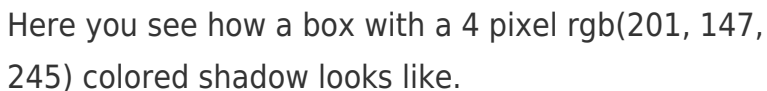
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(201, 147, 245) }
```

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

```
.border{ border-color:rgb(201, 147, 245) }
```

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



Here you see how a box with a 4 pixel `rgb(201, 147, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(201, 147, 245); -webkit-box-shadow:4px 4px 4px 4px rgb(201, 147, 245); box-shadow:4px 4px 4px 4px rgb(201, 147, 245) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.8775, 0.2798, 0.2188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(201, 147, 245) }
```

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

```
.background{ background-color: rgb(201,  
147, 245) }
```

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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