

# Converting Colors

$Y_{xy}(21.5606, 0.3083, 0.2415)$

Have a look what the booklet for  
Yxy(21.5606, 0.3083, 0.2415)  
contains.

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# Color

**Yxy(21.6978, 0.3084, 0.2422)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A26EA9
RGB	162, 110, 169
RGB Percent	64%, 43%, 66%
CMY	0.3649, 0.5685, 0.3373
CMYK	0.04, 0.35, 0.00, 0.34
HSL	293°, 26%, 55%
HSV	293°, 35%, 66%
XYZ	27.6284, 21.6978, 40.2601
YIQ	132.2740, 12.0530, 29.3730

# Conversions

## Conversions Part 2

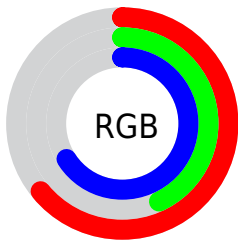
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	162, 110, 169
Decimal	10645161
CIE <sub>Lab</sub>	53.70, 30.76, -23.37
CIE <sub>LCh</sub>	54, 38.632, 322.778
Yxy	21.6978, 0.3084, 0.2422
Android (android.graphics.Color)	4288835241 (0xFFA26EA9)
YUV	132.2740, 18.1059, 26.0697
Hunter-Lab	46.5809, 24.3567, -18.6380

# Details

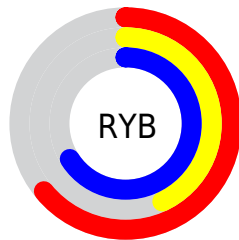
The Yxy color  $21.6978, 0.3084, 0.2422$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $33.2833, 0.3140, 0.4293$ , and the grayscale version is  $23.1088, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $46.1279, 0.3107, 0.2593$ , and  $7.8731, 0.3038, 0.2138$  is the 20% darker color. If you saturate the color by 10%, you get  $18.1827, 0.3064, 0.2179$ , and if you desaturate by 10%, it is  $25.9136, 0.3100, 0.2674$ .

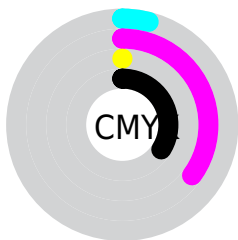
# Distribution



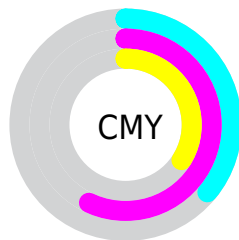
- Red (64%)
- Green (43%)
- Blue (66%)



- Red (64%)
- Yellow (43%)
- Blue (66%)



- Cyan (4%)
- Magenta (35%)
- Yellow (0%)
- Black (34%)



- Cyan (36%)
- Magenta (57%)
- Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.6978, 0.3084, 0.2422 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 21.6978, 0.3084, 0.2422 by changing the saturation by 10% instead.





 21.6978, 0.3084,  
0.2422

 21.6978, 0.3084,  
0.2422


260.9640, 0.3119,  
0.2879


 13.6350, 0.3069,  
0.2301


 46.2460, 0.3101,  
0.2593


 7.8673, 0.3046,  
0.2143


 63.5002, 0.3106,  
0.2656

 4.0101, 0.3008,  
0.1927


 84.5871, 0.3110,  
0.2708

 1.6792, 0.2936,  
0.1619

 109.8909, 0.3113,  
0.2753

 0.4102, 0.2835,  
0.0987

139.7961, 0.3115,  
0.2791

 0.0000, 0.0919,  
0.0000

174.6871, 0.3117,

 0.0000, 0.0000,

0.2824

0.0000

214.9483, 0.3118,  
0.2853

■ 21.6978, 0.3084,  
0.2422

■ 21.6978, 0.3084,  
0.2422

■ 18.1827, 0.3064,  
0.2179

■ 25.9136, 0.3100,  
0.2674

■ 15.3257, 0.3041,  
0.1955

■ 30.8638, 0.3113,  
0.2927

■ 13.0843, 0.3016,  
0.1759


■ 36.5833, 0.3123,  
0.3173

■ 11.4095, 0.2987,  
0.1600


■ 43.1040, 0.3131,  
0.3409

■ 10.2448, 0.2958,  
0.1482

■ 50.4558, 0.3136,  
0.3630

 9.5210, 0.2927,  
0.1407

 58.6673, 0.3139,  
0.3834

 9.2361, 0.2912,  
0.1378

 67.7657, 0.3140,  
0.4022

 77.7768, 0.3141,  
0.4193

 84.0994, 0.3145,  
0.4283

# Harmonies

## Analogous

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



21.6978, 0.2459, 0.2236



21.6978, 0.3084, 0.2422



21.6978, 0.3797, 0.2786

# Triad

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



21.6978, 0.3084, 0.2422



21.6978, 0.4260, 0.4271



21.6978, 0.2035, 0.3126

# Complementary

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



21.6978, 0.3084, 0.2422



33.2833, 0.3140, 0.4293

# 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.



21.6978, 0.2434, 0.3856



21.6978, 0.3084, 0.2422



21.6978, 0.3716, 0.4556

# Square

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



21.6978, 0.3084, 0.2422



21.6978, 0.4510, 0.3790



21.6978, 0.3046, 0.4432



21.6978, 0.1910, 0.2562



# Rectangle

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



21.6978, 0.3084, 0.2422



21.6978, 0.4198, 0.3098



21.6978, 0.3046, 0.4432



21.6978, 0.2138, 0.3363

# Sweetspot

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



21.6987, 0.3084, 0.2422



59.9341, 0.3118, 0.3044



19.1126, 0.2529, 0.2409



12.7671, 0.3117, 0.3011



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



21.6987, 0.3084, 0.2422



33.8136, 0.3069, 0.2230



21.7103, 0.3428, 0.2732



7.6205, 0.3119, 0.3066



6.9003, 0.2915, 0.1380



0.1802, 0.3019, 0.1437



# Inverse Universe

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



20.8781, 0.3835, 0.3183



32.1760, 0.4077, 0.3160



33.3435, 0.2915, 0.3926



7.5563, 0.3268, 0.3263



6.3291, 0.6225, 0.3203

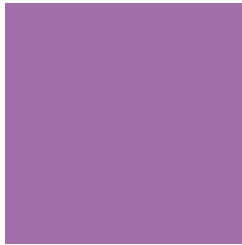


0.1583, 0.5612, 0.2865



# Previews

## White Background



This preview shows how the Yxy color 21.6978, 0.3084, 0.2422 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

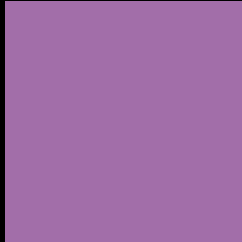
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 21.6978, 0.3084, 0.2422 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

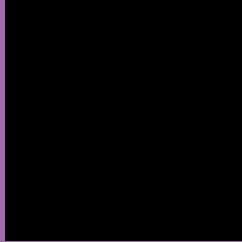
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 21.6978, 0.3084, 0.2422**

## Background



This preview shows how black text looks on a background with the Yxy color 21.6978, 0.3084, 0.2422.



This preview shows how white text looks on a background with the Yxy color 21.6978, 0.3084, 0.2422.

# 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

21.6978, 0.3084, 0.2422

### Protanopia

22.0009, 0.2468, 0.2391

### Deuteranopia

21.7398, 0.2676, 0.2617



## Tritanopia

21.5833, 0.3491, 0.3129

# Trichromacy



## Original Color

21.6978, 0.3084, 0.2422

## Protanomaly

21.5949, 0.2662, 0.2397

## Deuteranomaly

21.4572, 0.2814, 0.2532

## Tritanomaly

21.5137, 0.3336, 0.2849

# Monochromacy



## Original Color

21.6978, 0.3084, 0.2422

## Achromatopsia

23.0740, 0.3127, 0.3290

## Achromatomaly

22.2993, 0.3120, 0.2942

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.6978, 0.3084, 0.2422 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(162, 110, 169)` looks like.

```
.text, #text, p{  
    color:rgb(162, 110, 169)  
}
```

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(162, 110, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 110, 169) }
```

## Border

The CSS property to change the border of an element to Yxy 21.6978, 0.3084, 0.2422 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(162, 110, 169) }
```

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

```
.border{ border-color:rgb(162, 110, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 110, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 110, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 110, 169);  
box-shadow:4px 4px 4px 4px rgb(162, 110,  
169) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.6978, 0.3084, 0.2422 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 110, 169) }
```

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

```
.background{ background-color: rgb(162,  
110, 169) }
```

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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