

# Converting Colors

$Y_{xy}(22.5857, 0.3004, 0.2332)$

Have a look what the booklet for  
Yxy(22.5857, 0.3004, 0.2332)  
contains.

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# Color

**Yxy(22.6952, 0.3010, 0.2345)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A470B2
RGB	164, 112, 178
RGB Percent	64%, 44%, 70%
CMY	0.3570, 0.5607, 0.3020
CMYK	0.08, 0.37, 0.00, 0.30
HSL	287°, 30%, 57%
HSV	287°, 37%, 70%
XYZ	29.1312, 22.6952, 44.9549
YIQ	135.0720, 9.8060, 31.5500

# Conversions

## Conversions Part 2

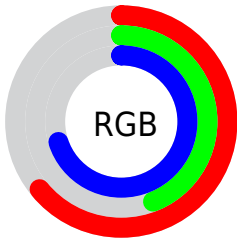
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 112, 178
Decimal	10776754
CIELab	54.76, 32.13, -26.93
CIELCh	55, 41.921, 320.028
Yxy	22.6952, 0.3010, 0.2345
Android (android.graphics.Color)	4288966834 (0xFFA470B2)
YUV	135.0720, 21.1635, 25.3699
Hunter-Lab	47.6395, 25.7822, -22.6012

# Details

The Yxy color **22.6952, 0.3010, 0.2345** is a light color, and the websafe version is hex **996699**. A complement of this color would be **37.4441, 0.3192, 0.4353**, and the grayscale version is **24.1742, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.0664, 0.3044, 0.2530**, and **8.4152, 0.2947, 0.2060** is the 20% darker color. If you saturate the color by 10%, you get **18.7512, 0.2965, 0.2091**, and if you desaturate by 10%, it is **27.4294, 0.3049, 0.2607**.

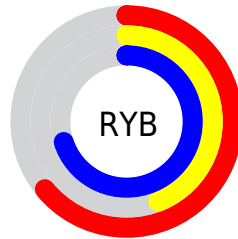
# Distribution



Red (64%)

Green (44%)

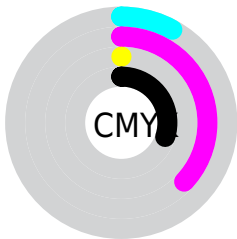
Blue (70%)



Red (64%)

Yellow (44%)

Blue (70%)

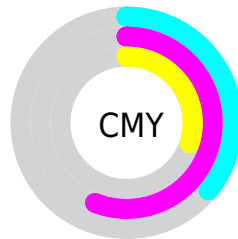


Cyan (8%)

Magenta (37%)

Yellow (0%)

Black (30%)



Cyan (36%)

Magenta (56%)

Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.6952, 0.3010, 0.2345 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 22.6952, 0.3010, 0.2345 by changing the saturation by 10% instead.





 22.6952, 0.3010,  
0.2345


 22.6952, 0.3010,  
0.2345


266.1556, 0.3087,  
0.2835


 14.3686, 0.2983,  
0.2218


 47.8924, 0.3043,  
0.2527


 8.3775, 0.2945,  
0.2054


 65.5317, 0.3054,  
0.2594

 4.3374, 0.2884,  
0.1833


 87.0441, 0.3063,  
0.2650

 1.8640, 0.2780,  
0.1526

 112.8140, 0.3070,  
0.2698

 0.5266, 0.2603,  
0.1003

143.2256, 0.3075,  
0.2740

 0.0000, 0.1538,  
0.0000

178.6635, 0.3080,

 0.0000, 0.0000,

0.2776

0.0000

219.5121, 0.3084,  
0.2807

■ 22.6952, 0.3010,  
0.2345

■ 22.6952, 0.3010,  
0.2345

■ 18.7512, 0.2965,  
0.2091

■ 27.4294, 0.3049,  
0.2607

■ 15.5486, 0.2915,  
0.1855

■ 32.9934, 0.3083,  
0.2867

■ 13.0374, 0.2862,  
0.1648


■ 39.4272, 0.3111,  
0.3119


■ 11.1601, 0.2806,  
0.1478


■ 46.7677, 0.3133,  
0.3359

■ 9.8501, 0.2749,  
0.1352

■ 55.0494, 0.3152,  
0.3583

 9.0112, 0.2694,  
0.1270

 64.3052, 0.3166,  
0.3789

 8.8000, 0.2677,  
0.1249

 74.5662, 0.3177,  
0.3977

 85.8621, 0.3185,  
0.4148

 86.7427, 0.3208,  
0.4147

# Harmonies

## Analogous

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



22.6952, 0.2366, 0.2168



22.6952, 0.3010, 0.2345



22.6952, 0.3774, 0.2713

# Triad

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



22.6952, 0.3010, 0.2345



22.6952, 0.4368, 0.4282



22.6952, 0.1994, 0.3177

# Complementary

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



22.6952, 0.3010, 0.2345



37.4441, 0.3192, 0.4353

# 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.



22.6952, 0.2438, 0.3968



22.6952, 0.3010, 0.2345



22.6952, 0.3807, 0.4628

# Square

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



22.6952, 0.3010, 0.2345



22.6952, 0.4605, 0.3759



22.6952, 0.3100, 0.4554



22.6952, 0.1839, 0.2554



# Rectangle

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



22.6952, 0.3010, 0.2345



22.6952, 0.4220, 0.3034



22.6952, 0.3100, 0.4554



22.6952, 0.2111, 0.3436

# Sweetspot

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



22.6962, 0.3010, 0.2345



66.4939, 0.3100, 0.3016



21.6638, 0.2497, 0.2434



14.3854, 0.3096, 0.2983



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



22.6962, 0.3010, 0.2345



35.5311, 0.2976, 0.2148



23.5712, 0.3386, 0.2622



8.5537, 0.3105, 0.3063



6.3258, 0.2683, 0.1252



0.2219, 0.2839, 0.1337



# Inverse Universe

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



22.5656, 0.3818, 0.3086



35.3716, 0.4037, 0.3044



36.9113, 0.2942, 0.4070



8.5339, 0.3255, 0.3242



6.8796, 0.6008, 0.3083

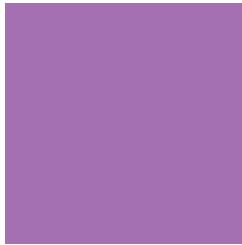


0.2250, 0.5250, 0.2666



# Previews

## White Background



This preview shows how the Yxy color 22.6952, 0.3010, 0.2345 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 22.6952, 0.3010, 0.2345 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

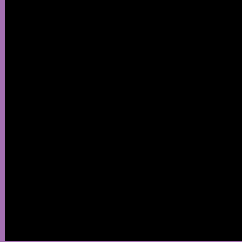
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 22.6952, 0.3010, 0.2345**

## Background



This preview shows how black text looks on a background with the Yxy color 22.6952, 0.3010, 0.2345.



This preview shows how white text looks on a background with the Yxy color 22.6952, 0.3010, 0.2345.

# 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

22.6952, 0.3010, 0.2345

### Protanopia

22.8858, 0.2396, 0.2292

### Deuteranopia

22.7887, 0.2597, 0.2536



## Tritanopia

22.7259, 0.3456, 0.3146

# Trichromacy



## Original Color

22.6952, 0.3010, 0.2345

## Protanomaly

22.4996, 0.2583, 0.2301

## Deuteranomaly

22.5347, 0.2734, 0.2457

## Tritanomaly

22.5686, 0.3295, 0.2825

# Monochromacy



## Original Color

22.6952, 0.3010, 0.2345

## Achromatopsia

24.2281, 0.3127, 0.3290

## Achromatomaly

23.5241, 0.3088, 0.2902

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.6952, 0.3010, 0.2345 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(164, 112, 178)` looks like.

```
.text, #text, p{  
    color:rgb(164, 112, 178)  
}
```

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(164, 112, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 112, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 22.6952, 0.3010, 0.2345 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(164, 112, 178) }
```

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

```
.border{ border-color:rgb(164, 112, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 112, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 112, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 112, 178);  
box-shadow:4px 4px 4px 4px rgb(164, 112,  
178) }
```



# Background

The CSS property to change the background color of an element to Yxy 22.6952, 0.3010, 0.2345 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 112, 178) }
```

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

```
.background{ background-color: rgb(164,  
112, 178) }
```

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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