

# Converting Colors

$Y_{xy}(24.2038, 0.3435, 0.2887)$

Have a look what the booklet for  
Yxy(24.2038, 0.3435, 0.2887)  
contains.

<b>Yxy(24.1975, 0.3437, 0.2890)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(24.1975, 0.3437, 0.2890)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AB7893
RGB	171, 120, 147
RGB Percent	67%, 47%, 58%
CMY	0.3294, 0.5294, 0.4236
CMYK	0.00, 0.30, 0.14, 0.33
HSL	328°, 23%, 57%
HSV	328°, 30%, 67%
XYZ	28.7774, 24.1975, 30.7534
YIQ	138.3270, 21.7290, 19.2090

# Conversions

## Conversions Part 2

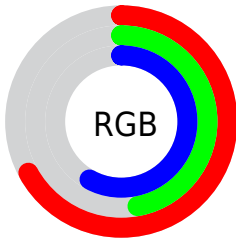
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	171, 120, 147
Decimal	11237523
CIE <sub>Lab</sub>	56.28, 24.17, -6.59
CIE <sub>LCh</sub>	56, 25.054, 344.742
Yxy	24.1975, 0.3437, 0.2890
Android (android.graphics.Color)	4289427603 (0xFFAB7893)
YUV	138.3270, 4.2758, 28.6542
Hunter-Lab	49.1910, 18.3410, -2.6335

# Details

The Yxy color  $24.1975, 0.3437, 0.2890$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $35.1348, 0.2902, 0.3729$ , and the grayscale version is  $25.5247, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $50.4351, 0.3371, 0.2974$ , and  $9.2026, 0.3559, 0.2767$  is the 20% darker color. If you saturate the color by 10%, you get  $20.2020, 0.3581, 0.2752$ , and if you desaturate by 10%, it is  $28.9474, 0.3314, 0.3029$ .

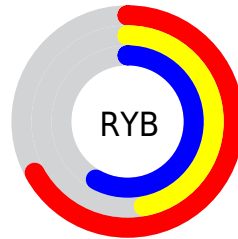
# Distribution



Red (67%)

Green (47%)

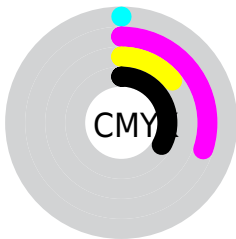
Blue (58%)



Red (67%)

Yellow (47%)

Blue (58%)

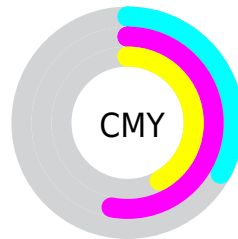


Cyan (0%)

Magenta (30%)

Yellow (14%)

Black (33%)



Cyan (33%)

Magenta (53%)


Yellow (42%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.1975, 0.3437, 0.2890 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 24.1975, 0.3437, 0.2890 by changing the saturation by 10% instead.





 24.1975, 0.3437,  
0.2890


 24.1975, 0.3437,  
0.2890


273.8175, 0.3268,  
0.3106


 15.4802, 0.3484,  
0.2831


 50.3523, 0.3372,  
0.2972

 9.1571, 0.3549,  
0.2750


 68.5586, 0.3349,  
0.3002

 4.8438, 0.3641,  
0.2637


 90.6966, 0.3330,  
0.3027

 2.1559, 0.3785,  
0.2463

117.1509, 0.3313,  
0.3047

 0.6958, 0.4055,  
0.2135

148.3057, 0.3300,  
0.3065

 0.0000, 0.9381,  
0.0000

184.5454, 0.3288,

 0.0000, 0.0000,

0.3080

0.0000

226.2546, 0.3277,  
0.3094

■ 24.1975, 0.3437,  
0.2890

■ 24.1975, 0.3437,  
0.2890

■ 20.2020, 0.3581,  
0.2752

■ 28.9474, 0.3314,  
0.3029

■ 16.9182, 0.3749,  
0.2621

■ 34.4850, 0.3212,  
0.3164

■ 14.3041, 0.3940,  
0.2508

■ 40.8455, 0.3126,  
0.3292

■ 12.3119, 0.4150,  
0.2423

■ 48.0611, 0.3055,  
0.3412

■ 10.8873, 0.4372,  
0.2378

■ 56.1621, 0.2996,  
0.3524

■ 9.9666, 0.4598,  
0.2382

■ 65.1775, 0.2947,  
0.3626

■ 9.4138, 0.4821,  
0.2431

■ 75.1348, 0.2906,  
0.3720

■ 9.4049, 0.4825,  
0.2431

■ 84.9018, 0.2871,  
0.3788

■ 85.3169, 0.2830,  
0.3692

# Harmonies

## Analogous

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



24.1975, 0.2993, 0.2669



24.1975, 0.3437, 0.2890



24.1975, 0.3814, 0.3205

# Triad

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



24.1975, 0.3437, 0.2890



24.1975, 0.3628, 0.4061



24.1975, 0.2332, 0.2927

# Complementary

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



24.1975, 0.3437, 0.2890



35.1348, 0.2902, 0.3729

# 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.



24.1975, 0.2477, 0.3322



24.1975, 0.3437, 0.2890



24.1975, 0.3213, 0.4026

# Square

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



24.1975, 0.3437, 0.2890



24.1975, 0.3919, 0.3872



24.1975, 0.2793, 0.3744



24.1975, 0.2381, 0.2671



# Rectangle

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



24.1975, 0.3437, 0.2890



24.1975, 0.3961, 0.3439



24.1975, 0.2793, 0.3744



24.1975, 0.2359, 0.3047

# Sweetspot

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



24.1986, 0.3437, 0.2890



62.4685, 0.3205, 0.3173



22.2860, 0.2859, 0.2495



13.5937, 0.3219, 0.3154



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290



# Same Dimension

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



24.1986, 0.3437, 0.2890



38.3181, 0.3533, 0.2796



23.4901, 0.3755, 0.3266



8.0835, 0.3207, 0.3171



7.1002, 0.4804, 0.2420



0.2085, 0.4201, 0.2088



# Inverse Universe

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



24.1986, 0.3437, 0.2890



38.3181, 0.3533, 0.2796



35.9967, 0.2717, 0.3315



8.0835, 0.3207, 0.3171



7.1002, 0.4804, 0.2420

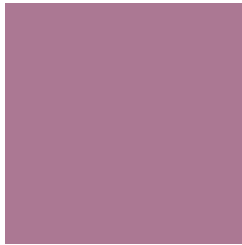


0.2085, 0.4201, 0.2088



# Previews

## White Background



This preview shows how the Yxy color 24.1975, 0.3437, 0.2890 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

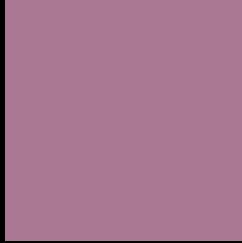
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.1975, 0.3437, 0.2890 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

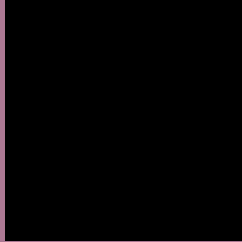
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 24.1975, 0.3437, 0.2890**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.1975, 0.3437, 0.2890.



This preview shows how white text looks on a background with the Yxy color 24.1975, 0.3437, 0.2890.

# 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

24.1975, 0.3437, 0.2890

### Protanopia

24.2758, 0.2876, 0.2923

### Deuteranopia

24.2062, 0.3127, 0.3061



## Tritanopia

24.2669, 0.3589, 0.3154

# Trichromacy



## Original Color

24.1975, 0.3437, 0.2890

## Protanomaly

24.1114, 0.3066, 0.2904

## Deuteranomaly

24.1241, 0.3235, 0.2989

## Tritanomaly

24.2713, 0.3542, 0.3065

# Monochromacy



## Original Color

24.1975, 0.3437, 0.2890

## Achromatopsia

25.4152, 0.3127, 0.3290

## Achromatomaly

24.6397, 0.3238, 0.3129

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.1975, 0.3437, 0.2890 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(171, 120, 147)` looks like.

```
.text, #text, p{  
    color:rgb(171, 120, 147)  
}
```

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(171, 120, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 120, 147) }
```

## Border

The CSS property to change the border of an element to Yxy 24.1975, 0.3437, 0.2890 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(171, 120, 147) }
```

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

```
.border{ border-color:rgb(171, 120, 147) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 120, 147)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(171, 120, 147); -webkit-box-shadow:4px 4px 4px 4px rgb(171, 120, 147); box-shadow:4px 4px 4px 4px rgb(171, 120, 147) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.1975, 0.3437, 0.2890 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 120, 147) }
```

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

```
.background{ background-color: rgb(171,  
120, 147) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor