

# Converting Colors

$Y_{xy}(24.4517, 0.2951, 0.2300)$

Have a look what the booklet for  
Yxy(24.4517, 0.2951, 0.2300)  
contains.

<b>Yxy(24.4465, 0.2954, 0.2294)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(24.4465, 0.2954, 0.2294)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A874BC
RGB	168, 116, 188
RGB Percent	66%, 45%, 74%
CMY	0.3410, 0.5452, 0.2627
CMYK	0.11, 0.38, 0.00, 0.26
HSL	283°, 35%, 60%
HSV	283°, 38%, 74%
XYZ	31.4799, 24.4465, 50.6407
YIQ	139.7560, 7.8800, 33.4160

# Conversions

## Conversions Part 2

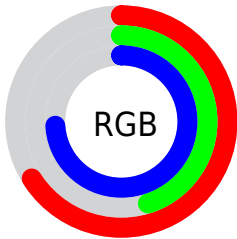
Format	Color
R <sub>Y</sub> B	168, 116, 188
Decimal	11039932
CIE Lab	56.53, 33.30, -29.90
CIE LCh	57, 44.756, 318.080
Yxy	24.4465, 0.2954, 0.2294
Android (android.graphics.Color)	4289230012 (0xFFA874BC)
YUV	139.7560, 23.7843, 24.7700
Hunter-Lab	49.4434, 27.1225, -26.1154

# Details

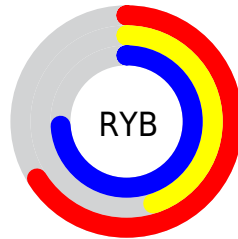
The Yxy color  $24.4465, 0.2954, 0.2294$  is a light color, and the websafe version is hex  $996699$ . A complement of this color would be  $42.4589, 0.3231, 0.4386$ , and the grayscale version is  $26.0309, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $50.7549, 0.3000, 0.2486$ , and  $9.2625, 0.2882, 0.2004$  is the 20% darker color. If you saturate the color by 10%, you get  $19.9835, 0.2891, 0.2032$ , and if you desaturate by 10%, it is  $29.8115, 0.3010, 0.2563$ .

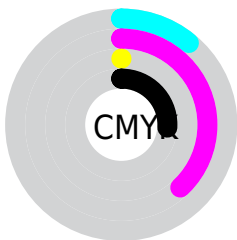
# Distribution



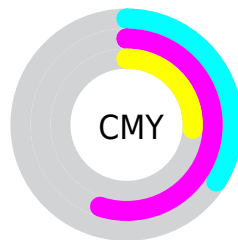
- Red (66%)
- Green (45%)
- Blue (74%)



- Red (66%)
- Yellow (45%)
- Blue (74%)



- Cyan (11%)
- Magenta (38%)
- Yellow (0%)
- Black (26%)




- Cyan (34%)
- Magenta (55%)
- Yellow (26%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.4465, 0.2954, 0.2294 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 24.4465, 0.2954, 0.2294 by changing the saturation by 10% instead.




 24.4465, 0.2954,  
0.2294


 24.4465, 0.2954,  
0.2294


275.0701, 0.3062,  
0.2802


 15.6652, 0.2920,  
0.2166


 50.7578, 0.2999,  
0.2480

 9.2875, 0.2871,  
0.2001


 69.0567, 0.3014,  
0.2550

 4.9292, 0.2797,  
0.1784


 91.2967, 0.3026,  
0.2608

 2.2058, 0.2679,  
0.1487

117.8625, 0.3036,  
0.2659

 0.7231, 0.2469,  
0.1058

149.1383, 0.3044,  
0.2702

 0.0000, 0.1941,  
0.0000

185.5086, 0.3051,

 0.0000, 0.0000,

0.2740

0.0000

227.3577, 0.3057,  
0.2773

■ 24.4465, 0.2954,  
0.2294

■ 24.4465, 0.2954,  
0.2294

■ 19.9835, 0.2891,  
0.2032

■ 29.8115, 0.3010,  
0.2563

■ 16.3659, 0.2823,  
0.1787

■ 36.1244, 0.3058,  
0.2830

■ 13.5355, 0.2750,  
0.1571


■ 43.4317, 0.3098,  
0.3087


■ 11.4250, 0.2675,  
0.1393


■ 51.7760, 0.3132,  
0.3330


■ 9.9559, 0.2601,  
0.1262


■ 61.1972, 0.3160,  
0.3556

 9.0020, 0.2529,  
0.1174

 71.7331, 0.3183,  
0.3763

 8.8593, 0.2517,  
0.1160

 83.4197, 0.3200,  
0.3952

 88.8118, 0.3226,  
0.4017

 89.5874, 0.3260,  
0.4009

# Harmonies

## Analogous

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



24.4465, 0.2302, 0.2126



24.4465, 0.2954, 0.2294



24.4465, 0.3749, 0.2662

# Triad

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



24.4465, 0.2954, 0.2294



24.4465, 0.4440, 0.4281



24.4465, 0.1973, 0.3219

# Complementary

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



24.4465, 0.2954, 0.2294



42.4589, 0.3231, 0.4386

# 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.



24.4465, 0.2448, 0.4050



24.4465, 0.2954, 0.2294



24.4465, 0.3872, 0.4668

# Square

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



24.4465, 0.2954, 0.2294



24.4465, 0.4664, 0.3731



24.4465, 0.3142, 0.4635



24.4465, 0.1796, 0.2555



# Rectangle

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



24.4465, 0.2954, 0.2294



24.4465, 0.4226, 0.2988



24.4465, 0.3142, 0.4635



24.4465, 0.2099, 0.3494

# Sweetspot

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



24.4475, 0.2954, 0.2294



74.7200, 0.3088, 0.3015



25.0599, 0.2482, 0.2474



15.6750, 0.3082, 0.2980



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



24.4475, 0.2954, 0.2294



37.3718, 0.2902, 0.2072



26.1720, 0.3343, 0.2538



9.5598, 0.3095, 0.3061



6.0698, 0.2526, 0.1165



0.2688, 0.2697, 0.1259



# Inverse Universe

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



24.9536, 0.3795, 0.3014



38.5894, 0.4020, 0.2955



41.3360, 0.2969, 0.4185



9.5786, 0.3246, 0.3227



7.4596, 0.5813, 0.2976

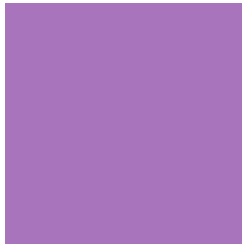


0.3037, 0.5108, 0.2588



# Previews

## White Background



This preview shows how the Yxy color 24.4465, 0.2954, 0.2294 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

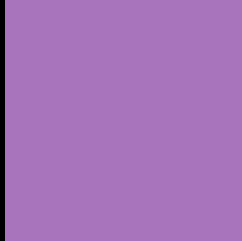
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.4465, 0.2954, 0.2294 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

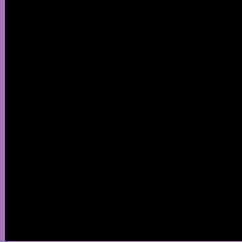
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 24.4465, 0.2954, 0.2294**

## Background



This preview shows how black text looks on a background with the Yxy color 24.4465, 0.2954, 0.2294.



This preview shows how white text looks on a background with the Yxy color 24.4465, 0.2954, 0.2294.

# 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

24.4465, 0.2954, 0.2294

### Protanopia

24.8252, 0.2361, 0.2254

### Deuteranopia

24.6906, 0.2548, 0.2486



## Tritanopia

24.4585, 0.3408, 0.3134

# Trichromacy



## Original Color

24.4465, 0.2954, 0.2294



## Protanomaly

24.1965, 0.2541, 0.2249



## Deuteranomaly

24.2129, 0.2683, 0.2397



## Tritanomaly

24.3527, 0.3232, 0.2792

# Monochromacy



## Original Color

24.4465, 0.2954, 0.2294



## Achromatopsia

26.2251, 0.3127, 0.3290



## Achromatomaly

25.1510, 0.3069, 0.2882

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.4465, 0.2954, 0.2294 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(168, 116, 188)` looks like.

```
.text, #text, p{  
    color:rgb(168, 116, 188)  
}
```

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(168, 116, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 116, 188) }
```

## Border

The CSS property to change the border of an element to Yxy 24.4465, 0.2954, 0.2294 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(168, 116, 188) }
```

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

```
.border{ border-color:rgb(168, 116, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 116, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 116, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 116, 188);  
box-shadow:4px 4px 4px 4px rgb(168, 116,  
188) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.4465, 0.2954, 0.2294 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 116, 188) }
```

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

```
.background{ background-color: rgb(168,  
116, 188) }
```

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