

# Converting Colors

$Y_{xy}(24.8679, 0.2844, 0.1973)$

Have a look what the booklet for  
Yxy(24.8679, 0.2844, 0.1973)  
contains.

<b>Yxy(24.9722, 0.2851, 0.1980)</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(24.9722, 0.2851, 0.1980)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B46BD4
RGB	180, 107, 212
RGB Percent	71%, 42%, 83%
CMY	0.2942, 0.5803, 0.1687
CMYK	0.15, 0.50, 0.00, 0.17
HSL	282°, 55%, 63%
HSV	282°, 50%, 83%
XYZ	35.9574, 24.9722, 65.1926
YIQ	140.7970, 9.8030, 48.1310

# Conversions

## Conversions Part 2

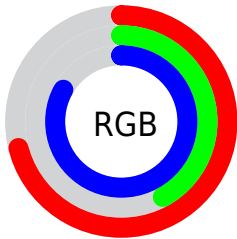
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 107, 212
Decimal	11824084
CIE <sub>Lab</sub>	57.05, 46.76, -42.62
CIE <sub>LCh</sub>	57, 63.269, 317.648
Yxy	24.9722, 0.2851, 0.1980
Android (android.graphics.Color)	4290014164 (0xFFB46BD4)
YUV	140.7970, 35.1031, 34.3810
Hunter-Lab	49.9722, 40.9882, -42.3678

# Details

The Yxy color  $24.9722, 0.2851, 0.1980$  is a light color, and the websafe version is hex  $9966CC$ . A complement of this color would be  $53.6242, 0.3266, 0.4754$ , and the grayscale version is  $26.4113, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $50.5388, 0.3032, 0.2326$ , and  $9.6226, 0.2728, 0.1645$  is the 20% darker color. If you saturate the color by 10%, you get  $20.3235, 0.2773, 0.1732$ , and if you desaturate by 10%, it is  $30.7423, 0.2922, 0.2247$ .

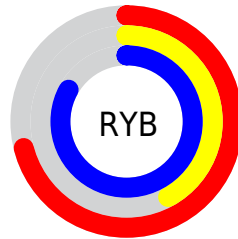
# Distribution



Red (71%)

Green (42%)

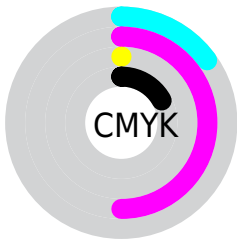
Blue (83%)



Red (71%)

Yellow (42%)

Blue (83%)

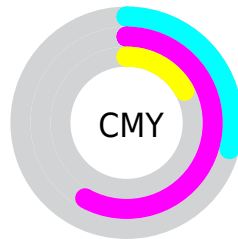


Cyan (15%)

Magenta (50%)

Yellow (0%)

Black (17%)



Cyan (29%)

Magenta (58%)

Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.9722, 0.2851, 0.1980 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 24.9722, 0.2851, 0.1980 by changing the saturation by 10% instead.





 24.9722, 0.2851,  
0.1980


 24.9722, 0.2851,  
0.1980


277.6995, 0.3022,  
0.2621


 16.0563, 0.2799,  
0.1829


 51.6121, 0.2920,  
0.2207

 9.5640, 0.2727,  
0.1642


 70.1050, 0.2944,  
0.2294

 5.1109, 0.2622,  
0.1406


 92.5589, 0.2964,  
0.2369

 2.3125, 0.2463,  
0.1106

 119.3584, 0.2979,  
0.2433

 0.7803, 0.2205,  
0.0725

150.8878, 0.2993,  
0.2489

 0.0000, 0.1810,  
0.0000

187.5316, 0.3004,

 0.0000, 0.0000,

0.2538

0.0000

229.6740, 0.3013,  
0.2582

■ 24.9722, 0.2851,  
0.1980

■ 24.9722, 0.2851,  
0.1980

■ 20.3235, 0.2773,  
0.1732

■ 30.7423, 0.2922,  
0.2247

■ 16.7122, 0.2692,  
0.1515

■ 37.7037, 0.2986,  
0.2521

■ 14.0469, 0.2608,  
0.1338


■ 45.9241, 0.3042,  
0.2793


■ 12.2185, 0.2527,  
0.1209


■ 55.4650, 0.3089,  
0.3055

■ 11.0405, 0.2448,  
0.1124

■ 66.3840, 0.3129,  
0.3302

 10.9886, 0.2444,  
0.1120

 78.7351, 0.3162,  
0.3531

 92.3130, 0.3188,  
0.3737

 93.3725, 0.3230,  
0.3732

 94.4716, 0.3271,  
0.3726

# Harmonies

## Analogous

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



24.9722, 0.2007, 0.1768



24.9722, 0.2851, 0.1980



24.9722, 0.3963, 0.2435

# Triad

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



24.9722, 0.2851, 0.1980



24.9722, 0.4853, 0.4500



24.9722, 0.1586, 0.3156

# Complementary

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



24.9722, 0.2851, 0.1980



53.6242, 0.3266, 0.4754

# 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.



24.9722, 0.2176, 0.4410



24.9722, 0.2851, 0.1980



24.9722, 0.4055, 0.5151

# Square

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



24.9722, 0.2851, 0.1980



24.9722, 0.5226, 0.3757



24.9722, 0.3085, 0.5257



24.9722, 0.1389, 0.2262



# Rectangle

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



24.9722, 0.2851, 0.1980



24.9722, 0.4651, 0.2838



24.9722, 0.3085, 0.5257



24.9722, 0.1737, 0.3558

# Sweetspot

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



24.9732, 0.2851, 0.1980



75.8324, 0.3063, 0.2908



26.7102, 0.2279, 0.2225



15.5864, 0.3053, 0.2852



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.



24.9732, 0.2851, 0.1980



30.8080, 0.2772, 0.1729



28.3509, 0.3390, 0.2288



12.4340, 0.3090, 0.3057



6.8406, 0.2455, 0.1126



0.4551, 0.2589, 0.1200



# Inverse Universe

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



26.3771, 0.4073, 0.2898



33.4869, 0.4387, 0.2837



51.7127, 0.2951, 0.4570



12.4825, 0.3244, 0.3219



8.8897, 0.5731, 0.2931

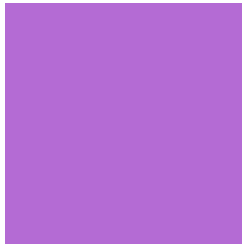


0.5508, 0.5234, 0.2657



# Previews

## White Background



This preview shows how the Yxy color 24.9722, 0.2851, 0.1980 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

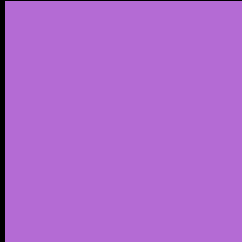
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 24.9722, 0.2851, 0.1980 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

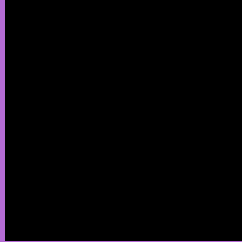
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 24.9722, 0.2851, 0.1980**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.9722, 0.2851, 0.1980.



This preview shows how white text looks on a background with the Yxy color 24.9722, 0.2851, 0.1980.

# 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

24.9722, 0.2851, 0.1980

### Protanopia

25.3816, 0.2061, 0.1863

### Deuteranopia

25.3508, 0.2289, 0.2240



## Tritanopia

24.7413, 0.3534, 0.3139

# Trichromacy



## Original Color

24.9722, 0.2851, 0.1980



## Protanomaly

24.2464, 0.2270, 0.1873



## Deuteranomaly

24.3813, 0.2453, 0.2109



## Tritanomaly

24.3719, 0.3263, 0.2642

# Monochromacy



## Original Color

24.9722, 0.2851, 0.1980



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

25.4591, 0.3022, 0.2715

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.9722, 0.2851, 0.1980 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(180, 107, 212)` looks like.

```
.text, #text, p{  
    color:rgb(180, 107, 212)  
}
```

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(180, 107, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 107, 212) }
```

## Border

The CSS property to change the border of an element to Yxy 24.9722, 0.2851, 0.1980 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(180, 107, 212) }
```

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

```
.border{ border-color:rgb(180, 107, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 107, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 107, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 107, 212);  
box-shadow:4px 4px 4px 4px rgb(180, 107,  
212) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.9722, 0.2851, 0.1980 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 107, 212) }
```

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

```
.background{ background-color: rgb(180,  
107, 212) }
```

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