

# Converting Colors

$Y_{xy}(29.5616, 0.2442, 0.1770)$

Have a look what the booklet for  
Yxy(29.5616, 0.2442, 0.1770)  
contains.

<b>Yxy(29.4733, 0.2445, 0.1768)</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(29.4733, 0.2445, 0.1768)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A77BFD
RGB	167, 123, 253
RGB Percent	65%, 48%, 99%
CMY	0.3448, 0.5177, 0.0078
CMYK	0.34, 0.51, 0.00, 0.01
HSL	260°, 97%, 74%
HSV	260°, 51%, 99%
XYZ	40.7592, 29.4733, 96.4717
YIQ	150.9760, -15.5060, 49.7580

# Conversions

## Conversions Part 2

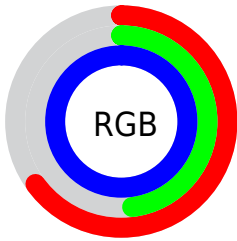
Format	Color
R <sub>Y</sub> B	167, 123, 253
Decimal	10976253
CIE Lab	61.20, 44.30, -58.99
CIE LCh	61, 73.778, 306.906
Yxy	29.4733, 0.2445, 0.1768
Android (android.graphics.Color)	4289166333 (0xFFA77BFD)
YUV	150.9760, 50.2978, 14.0530
Hunter-Lab	54.2893, 39.0074, -67.3554

# Details

The Yxy color **29.4733, 0.2445, 0.1768** is a light color, and the websafe version is hex **9966FF**. A complement of this color would be **85.2247, 0.3571, 0.4684**, and the grayscale version is **30.7247, 0.3127, 0.3290**.

A 20% lighter version of the original color is **54.6718, 0.2930, 0.2471**, and **12.0656, 0.2225, 0.1429** is the 20% darker color. If you saturate the color by 10%, you get **22.2834, 0.2278, 0.1462**, and if you desaturate by 10%, it is **38.5223, 0.2607, 0.2089**.

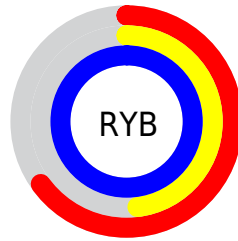
# Distribution



Red (65%)

Green (48%)

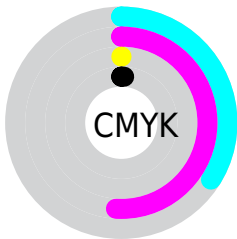
Blue (99%)



Red (65%)

Yellow (48%)

Blue (99%)

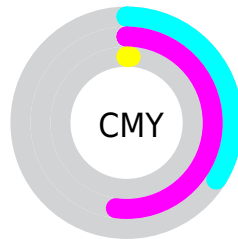


Cyan (34%)

Magenta (51%)

Yellow (0%)

Black (1%)



Cyan (34%)

Magenta (52%)


Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.4733, 0.2445, 0.1768 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 29.4733, 0.2445, 0.1768 by changing the saturation by 10% instead.





 29.4733, 0.2445,  
0.1768


 29.4733, 0.2445,  
0.1768


299.4416, 0.2814,  
0.2475


 19.4392, 0.2350,  
0.1613


 58.8282, 0.2582,  
0.2010

 11.9880, 0.2228,  
0.1427


 78.9178, 0.2633,  
0.2105

 6.7355, 0.2067,  
0.1204


 103.1280, 0.2676,  
0.2188

 3.2973, 0.1850,  
0.0936

131.8431, 0.2712,  
0.2260

 1.2888, 0.1552,  
0.0624

165.4477, 0.2743,  
0.2323

 0.1325, 0.1161,  
0.0122

204.3260, 0.2770,

 0.0000, 0.0304,

0.2380


0.0000


248.8625, 0.2793,  
0.2430

 0.0000, 0.0000,  
0.0000

 29.4733, 0.2445,  
0.1768

 29.4733, 0.2445,  
0.1768


 22.2834, 0.2278,  
0.1462


 38.5223, 0.2607,  
0.2089


 16.8128, 0.2113,  
0.1190


 49.5498, 0.2757,  
0.2408

 12.9062, 0.1960,  
0.0970

 62.6686, 0.2892,  
0.2713

 10.3770, 0.1828,  
0.0815

 77.9821, 0.3011,  
0.2997

 9.0607, 0.1736,  
0.0730

 95.5866, 0.3114,  
0.3256

99.8721, 0.3139,  
0.3309

# Harmonies

## Analogous

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



29.4733, 0.1690, 0.1643



29.4733, 0.2445, 0.1768



29.4733, 0.3588, 0.2163

# Triad

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



29.4733, 0.2445, 0.1768



29.4733, 0.5197, 0.4257



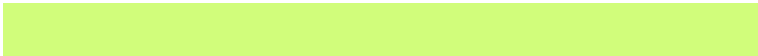
29.4733, 0.1626, 0.3607

# Complementary

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



29.4733, 0.2445, 0.1768



85.2247, 0.3571, 0.4684

# 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.



29.4733, 0.2396, 0.4997



29.4733, 0.2445, 0.1768



29.4733, 0.4437, 0.5062

# Square

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



29.4733, 0.2445, 0.1768



29.4733, 0.5396, 0.3479



29.4733, 0.3426, 0.5534



29.4733, 0.1289, 0.2435



# Rectangle

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



29.4733, 0.2445, 0.1768



29.4733, 0.4416, 0.2550



29.4733, 0.3426, 0.5534



29.4733, 0.1837, 0.4094

# Sweetspot

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



29.4744, 0.2445, 0.1768



73.4937, 0.2970, 0.2897



57.2269, 0.2355, 0.2758



15.0237, 0.2945, 0.2838



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.



29.4744, 0.2445, 0.1768



22.2835, 0.2267, 0.1444



38.2959, 0.2992, 0.1980



17.6770, 0.3032, 0.3048



4.8914, 0.1751, 0.0738



0.5336, 0.1873, 0.0805



# Inverse Universe

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



39.6420, 0.3613, 0.2424



34.0263, 0.3759, 0.2280



77.6699, 0.3163, 0.4883



18.1895, 0.3190, 0.3134



12.6255, 0.4299, 0.2142

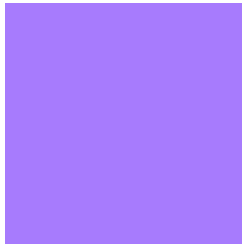


1.2497, 0.4142, 0.2056



# Previews

## White Background



This preview shows how the Yxy color 29.4733, 0.2445, 0.1768 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

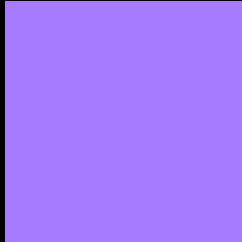
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.4733, 0.2445, 0.1768 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

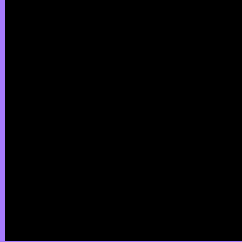
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.4733, 0.2445, 0.1768**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.4733, 0.2445, 0.1768.

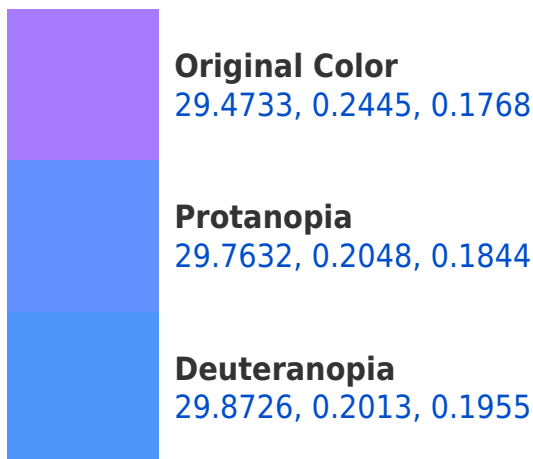


This preview shows how white text looks on a background with the Yxy color 29.4733, 0.2445, 0.1768.

# 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





## Tritanopia

29.2294, 0.3024, 0.3103

# Trichromacy



## Original Color

29.4733, 0.2445, 0.1768



## Protanomaly

28.9750, 0.2161, 0.1796



## Deuteranomaly

28.9752, 0.2125, 0.1864



## Tritanomaly

28.8972, 0.2779, 0.2507

# Monochromacy



## Original Color

29.4733, 0.2445, 0.1768



## Achromatopsia

30.9469, 0.3127, 0.3290



## Achromatomaly

29.8487, 0.2852, 0.2619

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.4733, 0.2445, 0.1768 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(167, 123, 253)` looks like.

```
.text, #text, p{  
    color:rgb(167, 123, 253)  
}
```

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(167, 123, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 123, 253) }
```

## Border

The CSS property to change the border of an element to Yxy 29.4733, 0.2445, 0.1768 is called "border". The border property can be set on classes, ids or directly on the HTML element.

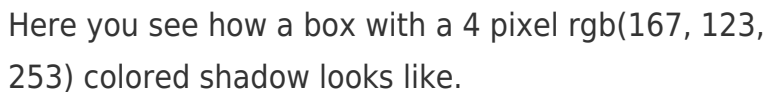
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(167, 123, 253) }
```

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

```
.border{ border-color:rgb(167, 123, 253) }
```

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



Here you see how a box with a 4 pixel `rgb(167, 123, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 123, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 123, 253);  
box-shadow:4px 4px 4px 4px rgb(167, 123,  
253) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.4733, 0.2445, 0.1768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 123, 253) }
```

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

```
.background{ background-color: rgb(167,  
123, 253) }
```

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