

# Converting Colors

$Y_{xy}(21.3444, 0.2902, 0.1716)$

Have a look what the booklet for  
Yxy(21.3444, 0.2902, 0.1716)  
contains.

<b>Yxy(21.3686, 0.2900, 0.1713)</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(21.3686, 0.2900, 0.1713)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD4FD8
RGB	189, 79, 216
RGB Percent	74%, 31%, 85%
CMY	0.2589, 0.6901, 0.1528
CMYK	0.13, 0.63, 0.00, 0.15
HSL	288°, 64%, 58%
HSV	288°, 63%, 85%
XYZ	36.1757, 21.3686, 67.1994
YIQ	127.5080, 21.5830, 65.9270

# Conversions

## Conversions Part 2

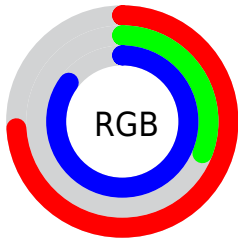
<b>Format</b>	<b>Color</b>
<b>RYB</b>	189, 79, 216
Decimal	12406744
CIELab	53.35, 63.43, -50.71
CIELCh	53, 81.206, 321.357
Yxy	21.3686, 0.2900, 0.1713
Android (android.graphics.Color)	4290596824 (0xFFBD4FD8)
YUV	127.5080, 43.6266, 53.9285
Hunter-Lab	46.2262, 58.7947, -53.8321

# Details

The Yxy color **21.3686, 0.2900, 0.1713** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **52.7562, 0.3174, 0.5245**, and the grayscale version is **21.2502, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.5044, 0.3120, 0.2122**, and **7.6829, 0.2776, 0.1335** is the 20% darker color. If you saturate the color by 10%, you get **18.2055, 0.2848, 0.1533**, and if you desaturate by 10%, it is **25.5618, 0.2949, 0.1929**.

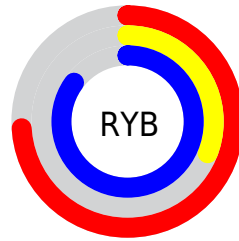
# Distribution



Red (74%)

Green (31%)

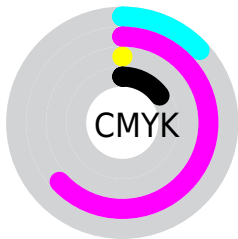
Blue (85%)



Red (74%)

Yellow (31%)

Blue (85%)

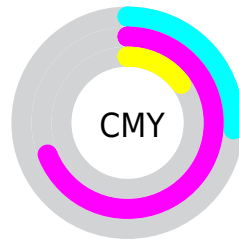


Cyan (13%)

Magenta (63%)

Yellow (0%)

Black (15%)



Cyan (26%)

Magenta (69%)


Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.3686, 0.2900, 0.1713 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 21.3686, 0.2900, 0.1713 by changing the saturation by 10% instead.



 21.3686, 0.2900,  
0.1713


 21.3686, 0.2900,  
0.1713


259.2310, 0.3060,  
0.2470


 13.3937, 0.2846,  
0.1541


 45.7002, 0.2969,  
0.1977


 7.7002, 0.2770,  
0.1332


 62.8257, 0.2991,  
0.2080


 3.9037, 0.2658,  
0.1078


 83.7701, 0.3009,  
0.2168

 1.6199, 0.2483,  
0.0772

 108.9180, 0.3023,  
0.2244

 0.3709, 0.2215,  
0.0341

 138.6536, 0.3035,  
0.2311

 0.0000, 0.1728,  
0.0000

173.3613, 0.3045,

 0.0000, 0.0000,

0.2371

0.0000

213.4257, 0.3053,  
0.2423

■ 21.3686, 0.2900,  
0.1713

■ 21.3686, 0.2900,  
0.1713

■ 18.2055, 0.2848,  
0.1533

■ 25.5618, 0.2949,  
0.1929

■ 15.9673, 0.2795,  
0.1397

■ 30.8709, 0.2994,  
0.2172

■ 14.5312, 0.2743,  
0.1307

■ 37.3761, 0.3033,  
0.2431

■ 13.8876, 0.2709,  
0.1266

■ 45.1492, 0.3068,  
0.2695

■ 54.2561, 0.3097,  
0.2956

■ 64.7585, 0.3120,  
0.3207

■ 76.7140, 0.3139,  
0.3444

■ 90.1770, 0.3154,  
0.3664

■ 92.8678, 0.3179,  
0.3692

# Harmonies

## Analogous

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



21.3686, 0.1802, 0.1429



21.3686, 0.2900, 0.1713



21.3686, 0.4412, 0.2274

# Triad

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



21.3686, 0.2900, 0.1713



21.3686, 0.5079, 0.4739



21.3686, 0.1129, 0.2850

# Complementary

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



21.3686, 0.2900, 0.1713



52.7562, 0.3174, 0.5245

# 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.



21.3686, 0.1722, 0.4629



21.3686, 0.2900, 0.1713



21.3686, 0.3975, 0.5716

# Square

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



21.3686, 0.2900, 0.1713



21.3686, 0.5775, 0.3797



21.3686, 0.2778, 0.5978



21.3686, 0.0999, 0.1836



# Rectangle

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



21.3686, 0.2900, 0.1713



21.3686, 0.5306, 0.2749



21.3686, 0.2778, 0.5978



21.3686, 0.1267, 0.3376

# Sweetspot

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



21.3695, 0.2900, 0.1713



71.1192, 0.3081, 0.2807



17.0158, 0.1983, 0.1620



14.4301, 0.3072, 0.2731



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.



21.3695, 0.2900, 0.1713



25.2923, 0.2831, 0.1483



23.2884, 0.3697, 0.2216



12.5032, 0.3107, 0.3058



8.2639, 0.2717, 0.1270



0.5307, 0.2806, 0.1320



# Inverse Universe

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



21.2382, 0.4754, 0.2994



25.5284, 0.5305, 0.2997



52.1457, 0.2846, 0.4760



12.4605, 0.3260, 0.3244



8.7550, 0.6070, 0.3117

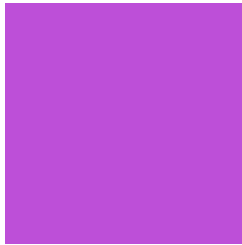


0.5399, 0.5591, 0.2854



# Previews

## White Background



This preview shows how the Yxy color 21.3686, 0.2900, 0.1713 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

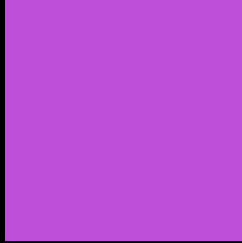
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 21.3686, 0.2900, 0.1713 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

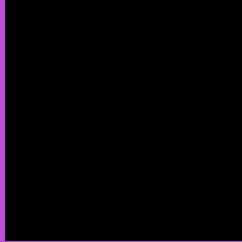
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 21.3686, 0.2900, 0.1713**

## Background



This preview shows how black text looks on a background with the Yxy color 21.3686, 0.2900, 0.1713.

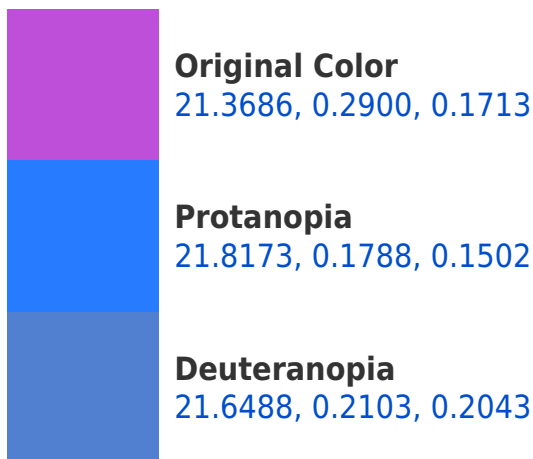


This preview shows how white text looks on a background with the Yxy color 21.3686, 0.2900, 0.1713.

# 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

21.3356, 0.3919, 0.3172

# Trichromacy



## Original Color

21.3686, 0.2900, 0.1713



## Protanomaly

19.2459, 0.1972, 0.1474



## Deuteranomaly

19.7981, 0.2306, 0.1829



## Tritanomaly

20.7386, 0.3517, 0.2520

# Monochromacy



## Original Color

21.3686, 0.2900, 0.1713



## Achromatopsia

21.5861, 0.3127, 0.3290



## Achromatomaly

20.1740, 0.3042, 0.2505

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.3686, 0.2900, 0.1713 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(189, 79, 216)` looks like.

```
.text, #text, p{  
    color:rgb(189, 79, 216)  
}
```

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(189, 79, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 79, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 21.3686, 0.2900, 0.1713 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(189, 79, 216) }
```

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

```
.border{ border-color:rgb(189, 79, 216) }
```

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

Here you see how a box with a 4 pixel rgb(189, 79, 216) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 79, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 79, 216);  
box-shadow:4px 4px 4px 4px rgb(189, 79,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.3686, 0.2900, 0.1713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 79, 216) }
```

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

```
.background{ background-color: rgb(189, 79,  
216) }
```

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