

# Converting Colors

$Y_{xy}(33.7131, 0.2881, 0.2010)$

Have a look what the booklet for  
Yxy(33.7131, 0.2881, 0.2010)  
contains.

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**Color**

**Yxy(33.5197, 0.2877, 0.2004)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CE7BEF
RGB	206, 123, 239
RGB Percent	81%, 48%, 94%
CMY	0.1921, 0.5177, 0.0626
CMYK	0.14, 0.49, 0.00, 0.06
HSL	283°, 78%, 71%
HSV	283°, 49%, 94%
XYZ	48.1218, 33.5197, 85.6224
YIQ	161.0410, 12.2320, 53.6720

# Conversions

## Conversions Part 2

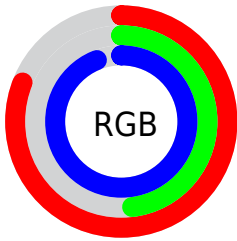
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	206, 123, 239
Decimal	13532143
CIE Lab	64.58, 51.18, -45.67
CIE LCh	65, 68.598, 318.256
Yxy	33.5197, 0.2877, 0.2004
Android (android.graphics.Color)	4291722223 (0xFFCE7BEF)
YUV	161.0410, 38.4338, 39.4290
Hunter-Lab	57.8962, 47.0463, -47.1564

# Details

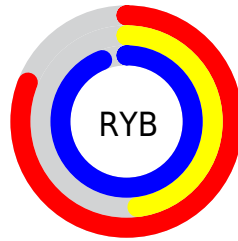
The Yxy color **33.5197, 0.2877, 0.2004** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **70.2540, 0.3251, 0.4741**, and the grayscale version is **35.4750, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.3208, 0.3163, 0.2536**, and **14.1473, 0.2776, 0.1706** is the 20% darker color. If you saturate the color by 10%, you get **27.3447, 0.2805, 0.1757**, and if you desaturate by 10%, it is **41.1872, 0.2943, 0.2271**.

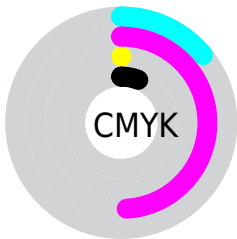
# Distribution



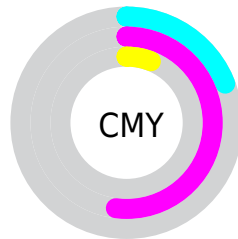
- Red (81%)
- Green (48%)
- Blue (94%)



- Red (81%)
- Yellow (48%)
- Blue (94%)



- Cyan (14%)
- Magenta (49%)
- Yellow (0%)
- Black (6%)




- Cyan (19%)
- Magenta (52%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.5197, 0.2877, 0.2004 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 33.5197, 0.2877, 0.2004 by changing the saturation by 10% instead.





 33.5197, 0.2877,  
0.2004

 33.5197, 0.2877,  
0.2004


317.9851, 0.3027,  
0.2603


 22.5249, 0.2834,  
0.1870


 65.1861, 0.2936,  
0.2210

 14.2431, 0.2775,  
0.1707


 86.6264, 0.2957,  
0.2291

 8.2899, 0.2694,  
0.1506


 112.3173, 0.2974,  
0.2361

 4.2810, 0.2576,  
0.1255

142.6433, 0.2989,  
0.2422

 1.8320, 0.2395,  
0.0942

177.9886, 0.3001,  
0.2475

 0.5070, 0.2110,  
0.0514

218.7378, 0.3011,


 0.0000, 0.1605,


0.2523

0.0000


265.2751, 0.3020,  
0.2565


 0.0000, 0.0000,  
0.0000


 33.5197, 0.2877,  
0.2004


 33.5197, 0.2877,  
0.2004

 27.3447, 0.2805,  
0.1757


 41.1872, 0.2943,  
0.2271


 22.5503, 0.2728,  
0.1540


 50.4399, 0.3002,  
0.2544

 19.0152, 0.2650,  
0.1364


 61.3679, 0.3053,  
0.2816

 16.5946, 0.2573,  
0.1237

 74.0533, 0.3096,  
0.3078


 15.0791, 0.2499,  
0.1155

 88.5724, 0.3132,  
0.3325

 14.8922, 0.2488,  
0.1144

 97.4971, 0.3168,  
0.3446

 98.7556, 0.3211,  
0.3444

 99.0141, 0.3220,  
0.3444

# Harmonies

## Analogous

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



33.5197, 0.2036, 0.1789



33.5197, 0.2877, 0.2004



33.5197, 0.3972, 0.2459

# Triad

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



33.5197, 0.2877, 0.2004



33.5197, 0.4819, 0.4505



33.5197, 0.1600, 0.3139

# Complementary

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



33.5197, 0.2877, 0.2004



70.2540, 0.3251, 0.4741

# 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.



33.5197, 0.2177, 0.4364



33.5197, 0.2877, 0.2004



33.5197, 0.4029, 0.5134

# Square

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



33.5197, 0.2877, 0.2004



33.5197, 0.5193, 0.3772



33.5197, 0.3071, 0.5212



33.5197, 0.1411, 0.2266



# Rectangle

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



33.5197, 0.2877, 0.2004



33.5197, 0.4643, 0.2860



33.5197, 0.3071, 0.5212



33.5197, 0.1748, 0.3531

# Sweetspot

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



33.5211, 0.2877, 0.2004



75.9703, 0.3069, 0.2909



34.8320, 0.2285, 0.2214



15.6197, 0.3059, 0.2853



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.



33.5211, 0.2877, 0.2004



31.8881, 0.2807, 0.1765



37.4700, 0.3405, 0.2317



15.7922, 0.3092, 0.3054



8.2967, 0.2500, 0.1151



0.7403, 0.2596, 0.1204



# Inverse Universe

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



34.9221, 0.4083, 0.2928



33.9724, 0.4393, 0.2873



68.0461, 0.2943, 0.4525



15.8328, 0.3248, 0.3223



10.3913, 0.5815, 0.2977

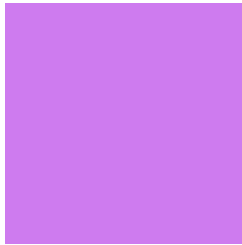


0.8810, 0.5442, 0.2772



# Previews

## White Background



This preview shows how the Yxy color 33.5197, 0.2877, 0.2004 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

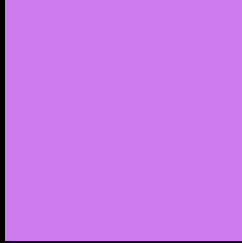
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.5197, 0.2877, 0.2004 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

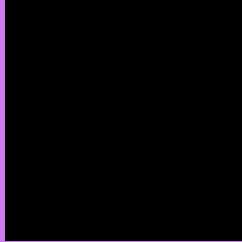
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.5197, 0.2877, 0.2004**

## Background



This preview shows how black text looks on a background with the Yxy color 33.5197, 0.2877, 0.2004.

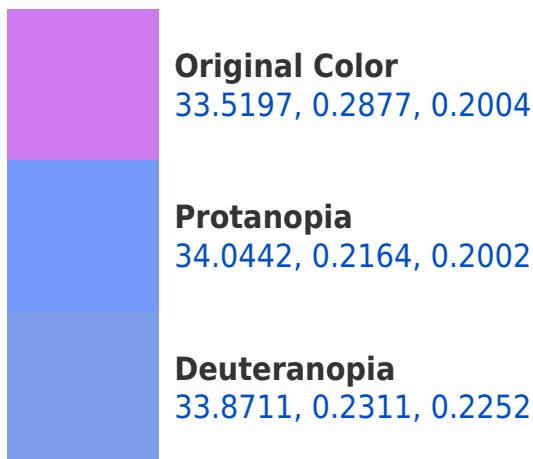


This preview shows how white text looks on a background with the Yxy color 33.5197, 0.2877, 0.2004.

# 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

33.3155, 0.3552, 0.3144

# Trichromacy



## Original Color

33.5197, 0.2877, 0.2004



## Protanomaly

32.8740, 0.2367, 0.1979



## Deuteranomaly

32.7170, 0.2479, 0.2128



## Tritanomaly

33.1169, 0.3292, 0.2668

# Monochromacy



## Original Color

33.5197, 0.2877, 0.2004



## Achromatopsia

35.6400, 0.3127, 0.3290



## Achromatomaly

33.8887, 0.3036, 0.2726

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.5197, 0.2877, 0.2004 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(206, 123, 239)` looks like.

```
.text, #text, p{  
    color:rgb(206, 123, 239)  
}
```

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(206, 123, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(206, 123, 239) }
```

## Border

The CSS property to change the border of an element to Yxy 33.5197, 0.2877, 0.2004 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(206, 123, 239) }
```

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

```
.border{ border-color:rgb(206, 123, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(206, 123, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(206, 123, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(206, 123, 239);  
box-shadow:4px 4px 4px 4px rgb(206, 123,  
239) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.5197, 0.2877, 0.2004 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(206, 123, 239) }
```

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

```
.background{ background-color: rgb(206,  
123, 239) }
```

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](#).

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