

# Converting Colors

$Y_{xy}(32.9820, 0.2812, 0.2078)$

Have a look what the booklet for  
Yxy(32.9820, 0.2812, 0.2078)  
contains.

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**Color**

**Yxy(32.9212, 0.2810, 0.2076)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C181E9
RGB	193, 129, 233
RGB Percent	76%, 51%, 91%
CMY	0.2429, 0.4942, 0.0863
CMYK	0.17, 0.45, 0.00, 0.09
HSL	277°, 70%, 71%
HSV	277°, 45%, 91%
XYZ	44.5610, 32.9212, 81.0978
YIQ	159.9920, 4.7600, 45.9120

# Conversions

## Conversions Part 2

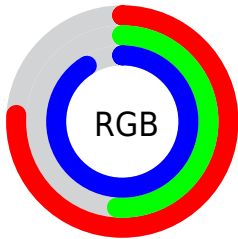
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	193, 129, 233
Decimal	12681705
CIE Lab	64.10, 43.18, -43.19
CIE LCh	64, 61.076, 314.991
Yxy	32.9212, 0.2810, 0.2076
Android (android.graphics.Color)	4290871785 (0xFFC181E9)
YUV	159.9920, 35.9929, 28.9480
Hunter-Lab	57.3770, 38.2195, -43.6378

# Details

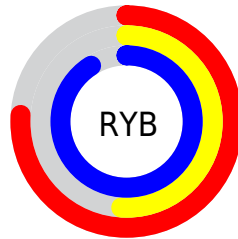
The Yxy color **32.9212, 0.2810, 0.2076** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **68.2900, 0.3317, 0.4581**, and the grayscale version is **34.9806, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.5962, 0.3129, 0.2578**, and **13.9415, 0.2686, 0.1785** is the 20% darker color. If you saturate the color by 10%, you get **26.3286, 0.2713, 0.1803**, and if you desaturate by 10%, it is **40.9868, 0.2898, 0.2360**.

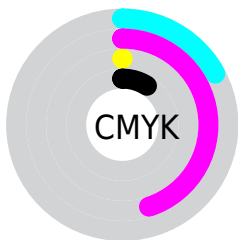
# Distribution



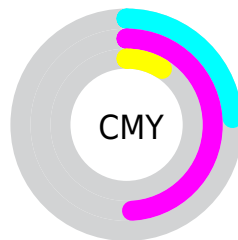
- Red (76%)
- Green (51%)
- Blue (91%)



- Red (76%)
- Yellow (51%)
- Blue (91%)



- Cyan (17%)
- Magenta (45%)
- Yellow (0%)
- Black (9%)




- Cyan (24%)
- Magenta (49%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.9212, 0.2810, 0.2076 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 32.9212, 0.2810, 0.2076 by changing the saturation by 10% instead.





 32.9212, 0.2810,  
0.2076


 32.9212, 0.2810,  
0.2076


315.2945, 0.2991,  
0.2651

 22.0661, 0.2759,  
0.1945


 64.2525, 0.2880,  
0.2276

 13.9055, 0.2692,  
0.1784


 85.4974, 0.2905,  
0.2354

 8.0549, 0.2600,  
0.1583


 110.9745, 0.2926,  
0.2421

 4.1301, 0.2466,  
0.1329

141.0680, 0.2943,  
0.2479

 1.7466, 0.2262,  
0.1005

176.1623, 0.2958,  
0.2530

 0.4536, 0.1948,  
0.0531

216.6419, 0.2971,


 0.0000, 0.1251,


0.2575


0.0000


262.8912, 0.2982,  
0.2615


 0.0000, 0.0000,  
0.0000


 32.9212, 0.2810,  
0.2076


 32.9212, 0.2810,  
0.2076


 26.3286, 0.2713,  
0.1803


 40.9868, 0.2898,  
0.2360


 21.1075, 0.2610,  
0.1553


 50.6101, 0.2977,  
0.2643


 17.1492, 0.2505,  
0.1341

 61.8735, 0.3045,  
0.2917

 14.3265, 0.2402,  
0.1175

 74.8529, 0.3103,  
0.3176

 12.4837, 0.2304,  
0.1061

 89.6189, 0.3152,  
0.3416

■ 11.7703, 0.2255,  
0.1016

■ 97.1303, 0.3203,  
0.3506

■ 98.6633, 0.3256,  
0.3503

# Harmonies

## Analogous

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



32.9212, 0.2070, 0.1904



32.9212, 0.2810, 0.2076



32.9212, 0.3783, 0.2479

# Triad

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



32.9212, 0.2810, 0.2076



32.9212, 0.4744, 0.4363



32.9212, 0.1777, 0.3280

# Complementary

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



32.9212, 0.2810, 0.2076



68.2900, 0.3317, 0.4581

# 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.



32.9212, 0.2358, 0.4352



32.9212, 0.2810, 0.2076



32.9212, 0.4067, 0.4925

# Square

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



32.9212, 0.2810, 0.2076



32.9212, 0.5000, 0.3694



32.9212, 0.3199, 0.5025



32.9212, 0.1553, 0.2439



# Rectangle

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



32.9212, 0.2810, 0.2076



32.9212, 0.4401, 0.2845



32.9212, 0.3199, 0.5025



32.9212, 0.1932, 0.3635

# Sweetspot

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



32.9225, 0.2810, 0.2076



78.3080, 0.3055, 0.2959



39.5186, 0.2383, 0.2463



16.0509, 0.3041, 0.2900



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.



32.9225, 0.2810, 0.2076



32.5863, 0.2717, 0.1813



38.3245, 0.3275, 0.2294



15.0083, 0.3077, 0.3053



6.7520, 0.2269, 0.1023



0.5852, 0.2398, 0.1094



# Inverse Universe

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



35.8801, 0.3847, 0.2840



36.9616, 0.4091, 0.2754



64.8196, 0.3009, 0.4548



15.1498, 0.3233, 0.3200



10.2660, 0.5439, 0.2770

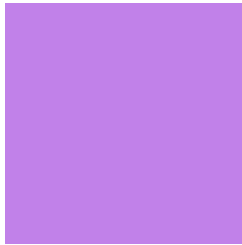


0.8244, 0.5066, 0.2564



# Previews

## White Background



This preview shows how the Yxy color 32.9212, 0.2810, 0.2076 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

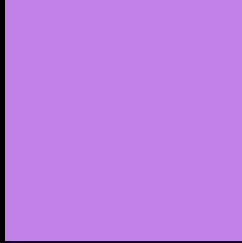
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.9212, 0.2810, 0.2076 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

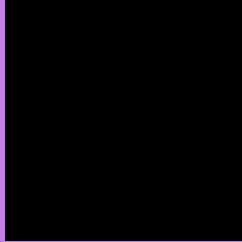
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.9212, 0.2810, 0.2076**

## **Background**



This preview shows how black text looks on a background with the Yxy color 32.9212, 0.2810, 0.2076.

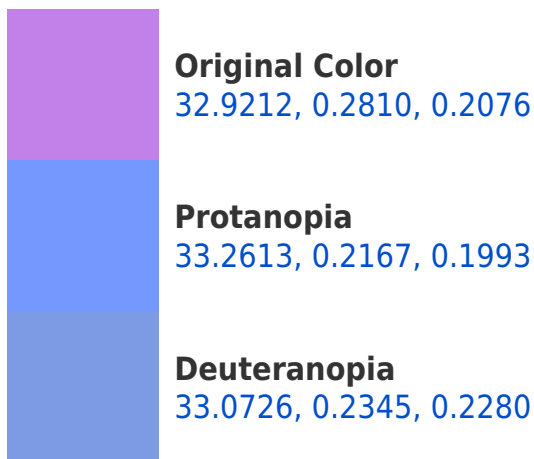


This preview shows how white text looks on a background with the Yxy color 32.9212, 0.2810, 0.2076.

# 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

32.8158, 0.3386, 0.3137

# Trichromacy



## Original Color

32.9212, 0.2810, 0.2076



## Protanomaly

32.5296, 0.2351, 0.2007



## Deuteranomaly

32.4480, 0.2489, 0.2183



## Tritanomaly

32.5732, 0.3155, 0.2694

# Monochromacy



## Original Color

32.9212, 0.2810, 0.2076



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

33.8534, 0.3006, 0.2770

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.9212, 0.2810, 0.2076 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(193, 129, 233)` looks like.

```
.text, #text, p{  
    color:rgb(193, 129, 233)  
}
```

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(193, 129, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 129, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 32.9212, 0.2810, 0.2076 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(193, 129, 233) }
```

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

```
.border{ border-color:rgb(193, 129, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(193, 129, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 129, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 129, 233);  
box-shadow:4px 4px 4px 4px rgb(193, 129,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.9212, 0.2810, 0.2076 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 129, 233) }
```

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

```
.background{ background-color: rgb(193,  
129, 233) }
```

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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