

# Converting Colors

$Y_{xy}(38.3840, 0.2929, 0.2284)$

Have a look what the booklet for  
Yxy(38.3840, 0.2929, 0.2284)  
contains.

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# Color

**Yxy(38.2518, 0.2929, 0.2280)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CC8FE7
RGB	204, 143, 231
RGB Percent	80%, 56%, 91%
CMY	0.2001, 0.4391, 0.0942
CMYK	0.12, 0.38, 0.00, 0.09
HSL	282°, 65%, 73%
HSV	282°, 38%, 91%
XYZ	49.1401, 38.2518, 80.3791
YIQ	171.2710, 8.1080, 40.3000

# Conversions

## Conversions Part 2

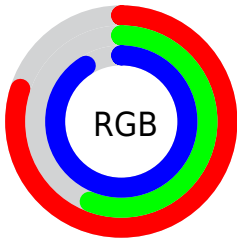
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">204, 143, 231</a>
Decimal	<a href="#">13406183</a>
CIELab	<a href="#">68.21, 38.34, -35.57</a>
CIElCh	<a href="#">68, 52.304, 317.147</a>
Yxy	<a href="#">38.2518, 0.2929, 0.2280</a>
Android (android.graphics.Color)	<a href="#">4291596263 (0xFFCC8FE7)</a>
YUV	<a href="#">171.2710, 29.4464, 28.7033</a>
Hunter-Lab	<a href="#">61.8480, 33.5896, -33.7610</a>

# Details

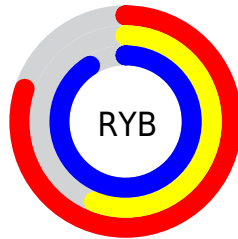
The Yxy color **38.2518, 0.2929, 0.2280** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **67.6733, 0.3250, 0.4389**, and the grayscale version is **40.7148, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.8682, 0.3153, 0.2732**, and **16.8732, 0.2850, 0.2030** is the 20% darker color. If you saturate the color by 10%, you get **31.0374, 0.2858, 0.2010**, and if you desaturate by 10%, it is **46.9428, 0.2993, 0.2556**.

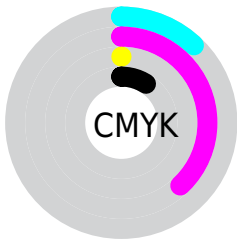
# Distribution



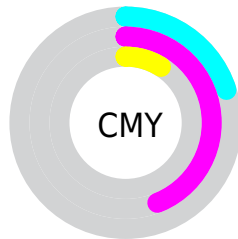
- Red (80%)
- Green (56%)
- Blue (91%)



- Red (80%)
- Yellow (56%)
- Blue (91%)



- Cyan (12%)
- Magenta (38%)
- Yellow (0%)
- Black (9%)




- Cyan (20%)
- Magenta (44%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.2518, 0.2929, 0.2280 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 38.2518, 0.2929, 0.2280 by changing the saturation by 10% instead.





 38.2518, 0.2929,  
0.2280

 38.2518, 0.2929,  
0.2280


338.6989, 0.3043,  
0.2757

 26.1782, 0.2897,  
0.2170


 72.4939, 0.2973,  
0.2447

 16.9570, 0.2854,  
0.2035


 95.4312, 0.2989,  
0.2511

 10.2038, 0.2795,  
0.1864


122.7585, 0.3002,  
0.2567

 5.5343, 0.2708,  
0.1644

154.8602, 0.3013,  
0.2615

 2.5640, 0.2574,  
0.1354

192.1207, 0.3022,  
0.2657

 0.9086, 0.2348,  
0.0966

234.9244, 0.3030,


 0.0000, 0.2021,


0.2694

0.0000


283.6556, 0.3037,  
0.2727


 0.0000, 0.0000,  
0.0000


 38.2518, 0.2929,  
0.2280


 38.2518, 0.2929,  
0.2280

 31.0374, 0.2858,  
0.2010


 46.9428, 0.2993,  
0.2556


 25.2058, 0.2779,  
0.1757


 57.1868, 0.3048,  
0.2828


 20.6601, 0.2697,  
0.1535


 69.0606, 0.3095,  
0.3090

 17.2883, 0.2613,  
0.1352


 82.6347, 0.3134,  
0.3336


 14.9585, 0.2530,  
0.1217

 95.7145, 0.3169,  
0.3530

 13.4859, 0.2450,  
0.1130

 96.9761, 0.3214,  
0.3526

 13.2486, 0.2435,  
0.1115

 98.2868, 0.3259,  
0.3523

 98.5484, 0.3268,  
0.3523

# Harmonies

## Analogous

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



38.2518, 0.2281, 0.2118



38.2518, 0.2929, 0.2280



38.2518, 0.3728, 0.2644

# Triad

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



38.2518, 0.2929, 0.2280



38.2518, 0.4461, 0.4270



38.2518, 0.1976, 0.3243

# Complementary

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



38.2518, 0.2929, 0.2280



67.6733, 0.3250, 0.4389

# 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.



38.2518, 0.2462, 0.4080



38.2518, 0.2929, 0.2280



38.2518, 0.3896, 0.4670

# Square

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



38.2518, 0.2929, 0.2280



38.2518, 0.4674, 0.3715



38.2518, 0.3165, 0.4654



38.2518, 0.1790, 0.2566



# Rectangle

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



38.2518, 0.2929, 0.2280



38.2518, 0.4214, 0.2969



38.2518, 0.3165, 0.4654



38.2518, 0.2106, 0.3521

# Sweetspot

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



38.2534, 0.2929, 0.2280



81.7939, 0.3082, 0.3013



40.6884, 0.2483, 0.2507



17.0655, 0.3076, 0.2978



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.



38.2534, 0.2929, 0.2280



40.3690, 0.2871, 0.2059



41.5356, 0.3317, 0.2504



14.3816, 0.3089, 0.3055



7.4970, 0.2448, 0.1122



0.6024, 0.2561, 0.1185



# Inverse Universe

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



39.5401, 0.3773, 0.2982



42.3958, 0.3984, 0.2917



65.4903, 0.2984, 0.4232



14.4405, 0.3244, 0.3218



9.7982, 0.5731, 0.2931

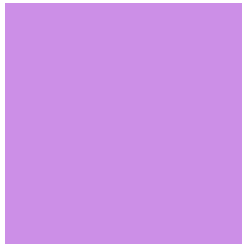


0.7402, 0.5316, 0.2702



# Previews

## White Background



This preview shows how the Yxy color 38.2518, 0.2929, 0.2280 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

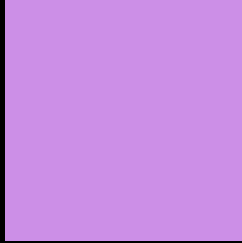
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.2518, 0.2929, 0.2280 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

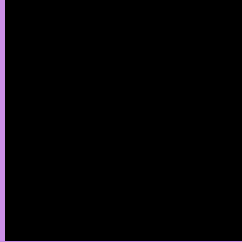
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.2518, 0.2929, 0.2280**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.2518, 0.2929, 0.2280.



This preview shows how white text looks on a background with the Yxy color 38.2518, 0.2929, 0.2280.

# 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

38.2518, 0.2929, 0.2280

### Protanopia

38.7315, 0.2345, 0.2231

### Deuteranopia

38.3929, 0.2527, 0.2465



## Tritanopia

38.0734, 0.3391, 0.3134

# Trichromacy



## Original Color

38.2518, 0.2929, 0.2280



## Protanomaly

37.8691, 0.2522, 0.2231



## Deuteranomaly

37.7032, 0.2657, 0.2383



## Tritanomaly

37.9006, 0.3219, 0.2788

# Monochromacy



## Original Color

38.2518, 0.2929, 0.2280



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

39.4073, 0.3055, 0.2873

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.2518, 0.2929, 0.2280 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(204, 143, 231)` looks like.

```
.text, #text, p{  
    color:rgb(204, 143, 231)  
}
```

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(204, 143, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 143, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 38.2518, 0.2929, 0.2280 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(204, 143, 231) }
```

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

```
.border{ border-color:rgb(204, 143, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 143, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 143, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 143, 231);  
box-shadow:4px 4px 4px 4px rgb(204, 143,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.2518, 0.2929, 0.2280 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 143, 231) }
```

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

```
.background{ background-color: rgb(204,  
143, 231) }
```

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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