

# Converting Colors

$Y_{xy}(31.6298, 0.3073, 0.2324)$

Have a look what the booklet for  
Yxy(31.6298, 0.3073, 0.2324)  
contains.

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# Color

**Yxy(31.8137, 0.3071, 0.2326)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C580CF
RGB	197, 128, 207
RGB Percent	77%, 50%, 81%
CMY	0.2275, 0.4980, 0.1882
CMYK	0.05, 0.38, 0.00, 0.19
HSL	292°, 45%, 66%
HSV	292°, 38%, 81%
XYZ	42.0034, 31.8137, 62.9572
YIQ	157.6370, 15.7650, 39.1970

# Conversions

## Conversions Part 2

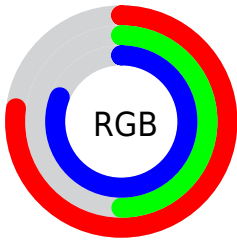
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	197, 128, 207
Decimal	12943567
CIE <sub>Lab</sub>	63.19, 39.52, -30.09
CIE <sub>LCh</sub>	63, 49.668, 322.716
Yxy	31.8137, 0.3071, 0.2326
Android (android.graphics.Color)	4291133647 (0xFFC580CF)
YUV	157.6370, 24.3360, 34.5214
Hunter-Lab	56.4036, 34.2213, -26.6964

# Details

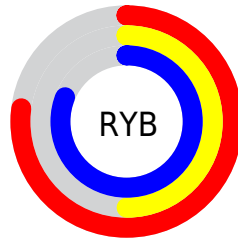
The Yxy color **31.8137, 0.3071, 0.2326** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **51.5903, 0.3144, 0.4419**, and the grayscale version is **33.9028, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.9359, 0.3161, 0.2575**, and **13.3255, 0.3041, 0.2080** is the 20% darker color. If you saturate the color by 10%, you get **26.6027, 0.3048, 0.2085**, and if you desaturate by 10%, it is **38.1352, 0.3091, 0.2580**.

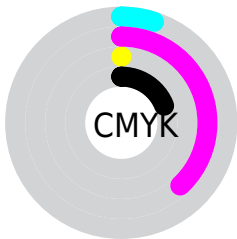
# Distribution



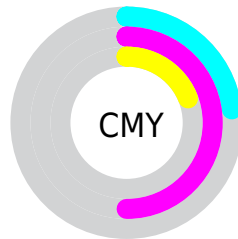
- Red (77%)
- Green (50%)
- Blue (81%)



- Red (77%)
- Yellow (50%)
- Blue (81%)



- Cyan (5%)
- Magenta (38%)
- Yellow (0%)
- Black (19%)




- Cyan (23%)
- Magenta (50%)
- Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.8137, 0.3071, 0.2326 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 31.8137, 0.3071, 0.2326 by changing the saturation by 10% instead.





 31.8137, 0.3071,  
0.2326


 31.8137, 0.3071,  
0.2326


310.2697, 0.3115,  
0.2797

 21.2192, 0.3055,  
0.2213


 62.5189, 0.3090,  
0.2494

 13.2844, 0.3033,  
0.2071


 83.3985, 0.3097,  
0.2558

 7.6246, 0.2998,  
0.1889


 108.4752, 0.3101,  
0.2613

 3.8557, 0.2941,  
0.1647

138.1334, 0.3105,  
0.2660

 1.5932, 0.2838,  
0.1316

172.7576, 0.3108,  
0.2701

 0.3530, 0.2684,  
0.0682

212.7321, 0.3111,

 0.0000, 0.1583,

0.2737

0.0000

258.4413, 0.3113,  
0.2769

0.0000, 0.0000,  
0.0000

31.8137, 0.3071,  
0.2326

31.8137, 0.3071,  
0.2326

26.6027, 0.3048,  
0.2085

38.1352, 0.3091,  
0.2580

22.4305, 0.3021,  
0.1866

45.6247, 0.3107,  
0.2838

19.2236, 0.2992,  
0.1681

54.3407, 0.3119,  
0.3091

16.8973, 0.2960,  
0.1535

64.3368, 0.3129,  
0.3334

15.3518, 0.2927,  
0.1434

75.6632, 0.3136,  
0.3563

■ 14.4390, 0.2895,  
0.1374

■ 88.3674, 0.3140,  
0.3775

■ 14.2976, 0.2889,  
0.1365

■ 90.5266, 0.3155,  
0.3800

■ 90.9282, 0.3171,  
0.3798

■ 91.3361, 0.3188,  
0.3795

# Harmonies

## Analogous

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



31.8137, 0.2376, 0.2121



31.8137, 0.3071, 0.2326



31.8137, 0.3880, 0.2724

# Triad

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



31.8137, 0.3071, 0.2326



31.8137, 0.4388, 0.4370



31.8137, 0.1908, 0.3094

# Complementary

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



31.8137, 0.3071, 0.2326



51.5903, 0.3144, 0.4419

# 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.



31.8137, 0.2344, 0.3936



31.8137, 0.3071, 0.2326



31.8137, 0.3772, 0.4720

# Square

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



31.8137, 0.3071, 0.2326



31.8137, 0.4683, 0.3824



31.8137, 0.3024, 0.4602



31.8137, 0.1777, 0.2466



# Rectangle

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



31.8137, 0.3071, 0.2326



31.8137, 0.4338, 0.3065



31.8137, 0.3024, 0.4602



31.8137, 0.2020, 0.3364

# Sweetspot

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



31.8151, 0.3071, 0.2326



82.7222, 0.3116, 0.3016



27.4296, 0.2454, 0.2295



17.2879, 0.3114, 0.2982



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.



31.8151, 0.3071, 0.2326



43.8575, 0.3052, 0.2122



31.9236, 0.3471, 0.2671



11.9298, 0.3118, 0.3060



9.0370, 0.2893, 0.1367



0.5271, 0.2955, 0.1401



# Inverse Universe

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



30.5437, 0.3941, 0.3164



41.6370, 0.4221, 0.3138



51.6491, 0.2895, 0.4009



11.8323, 0.3271, 0.3261



8.4132, 0.6228, 0.3205

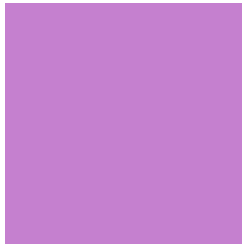


0.4787, 0.5824, 0.2982



# Previews

## White Background



This preview shows how the Yxy color 31.8137, 0.3071, 0.2326 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

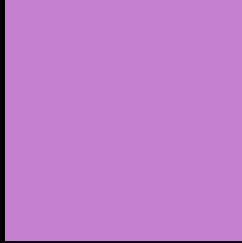
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.8137, 0.3071, 0.2326 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

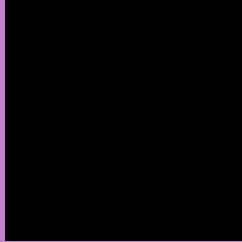
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.8137, 0.3071, 0.2326**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.8137, 0.3071, 0.2326.



This preview shows how white text looks on a background with the Yxy color 31.8137, 0.3071, 0.2326.

# 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

31.8137, 0.3071, 0.2326

### Protanopia

32.2366, 0.2380, 0.2276

### Deuteranopia

32.1077, 0.2608, 0.2550



## Tritanopia

31.8093, 0.3549, 0.3141

# Trichromacy



## Original Color

31.8137, 0.3071, 0.2326



## Protanomaly

31.5769, 0.2596, 0.2290



## Deuteranomaly

31.5816, 0.2759, 0.2460



## Tritanomaly

31.7551, 0.3374, 0.2827

# Monochromacy



## Original Color

31.8137, 0.3071, 0.2326



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

32.7727, 0.3106, 0.2885

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.8137, 0.3071, 0.2326 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(197, 128, 207)` looks like.

```
.text, #text, p{  
    color:rgb(197, 128, 207)  
}
```

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(197, 128, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(197, 128, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 31.8137, 0.3071, 0.2326 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(197, 128, 207) }
```

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

```
.border{ border-color:rgb(197, 128, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(197, 128, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(197, 128, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(197, 128, 207);  
box-shadow:4px 4px 4px 4px rgb(197, 128,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.8137, 0.3071, 0.2326 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(197, 128, 207) }
```

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

```
.background{ background-color: rgb(197,  
128, 207) }
```

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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