

# Converting Colors

Yxy(31.8435, 0.2830, 0.1999)

Have a look what the booklet for  
Yxy(31.8435, 0.2830, 0.1999)  
contains.

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**Color**

**Yxy(31.7875, 0.2827, 0.1998)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C57AEB
RGB	197, 122, 235
RGB Percent	77%, 48%, 92%
CMY	0.2274, 0.5215, 0.0786
CMYK	0.16, 0.48, 0.00, 0.08
HSL	280°, 74%, 70%
HSV	280°, 48%, 92%
XYZ	44.9766, 31.7875, 82.3325
YIQ	157.3070, 8.4270, 51.0430

# Conversions

## Conversions Part 2

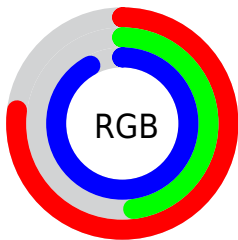
Format	Color
R <sub>Y</sub> B	197, 122, 235
Decimal	12942059
CIE <sub>Lab</sub>	63.17, 48.39, -45.71
CIE <sub>LCh</sub>	63, 66.571, 316.632
Yxy	31.7875, 0.2827, 0.1998
Android (android.graphics.Color)	4291132139 (0xFFC57AEB)
YUV	157.3070, 38.3026, 34.8108
Hunter-Lab	56.3804, 43.7299, -47.1151

# Details

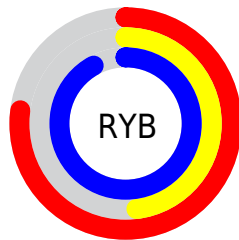
The Yxy color **31.7875, 0.2827, 0.1998** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **68.2704, 0.3289, 0.4707**, and the grayscale version is **33.6852, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.5307, 0.3163, 0.2517**, and **13.2977, 0.2708, 0.1690** is the 20% darker color. If you saturate the color by 10%, you get **25.6608, 0.2741, 0.1740**, and if you desaturate by 10%, it is **39.3673, 0.2906, 0.2273**.

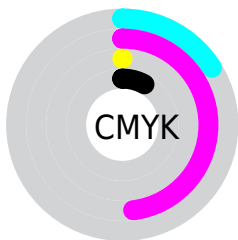
# Distribution



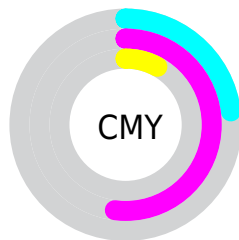
- Red (77%)
- Green (48%)
- Blue (92%)



- Red (77%)
- Yellow (48%)
- Blue (92%)



- Cyan (16%)
- Magenta (48%)
- Yellow (0%)
- Black (8%)




- Cyan (23%)
- Magenta (52%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.7875, 0.2827, 0.1998 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 31.7875, 0.2827, 0.1998 by changing the saturation by 10% instead.




 31.7875, 0.2827,  
0.1998


 31.7875, 0.2827,  
0.1998


310.1501, 0.3003,  
0.2606

 21.1992, 0.2777,  
0.1861


 62.4778, 0.2896,  
0.2209

 13.2697, 0.2710,  
0.1693


 83.3486, 0.2921,  
0.2291

 7.6145, 0.2617,  
0.1485


 108.4158, 0.2941,  
0.2362

 3.8493, 0.2481,  
0.1226

138.0637, 0.2957,  
0.2423

 1.5896, 0.2275,  
0.0901

172.6766, 0.2972,  
0.2477

 0.3506, 0.1963,  
0.0403

212.6391, 0.2984,

 0.0000, 0.1273,

0.2525

0.0000

258.3355, 0.2994,  
0.2568

0.0000, 0.0000,  
0.0000

31.7875, 0.2827,  
0.1998

31.7875, 0.2827,  
0.1998

25.6608, 0.2741,  
0.1740

39.3673, 0.2906,  
0.2273

20.8801, 0.2650,  
0.1511

48.4891, 0.2977,  
0.2552

17.3299, 0.2558,  
0.1323


59.2392, 0.3038,  
0.2827


14.8721, 0.2467,  
0.1183


71.6963, 0.3091,  
0.3090

13.3152, 0.2381,  
0.1092

85.9337, 0.3135,  
0.3336

 13.0639, 0.2365,  
0.1077

 96.8171, 0.3177,  
0.3487

 98.2630, 0.3227,  
0.3485

 98.7759, 0.3244,  
0.3484

# Harmonies

## Analogous

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



31.7875, 0.2013, 0.1799



31.7875, 0.2827, 0.1998



31.7875, 0.3903, 0.2438

# Triad

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



31.7875, 0.2827, 0.1998



31.7875, 0.4837, 0.4458



31.7875, 0.1636, 0.3203

# Complementary

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



31.7875, 0.2827, 0.1998



68.2704, 0.3289, 0.4707

# 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.



31.7875, 0.2231, 0.4413



31.7875, 0.2827, 0.1998



31.7875, 0.4072, 0.5090

# Square

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



31.7875, 0.2827, 0.1998



31.7875, 0.5174, 0.3733



31.7875, 0.3127, 0.5205



31.7875, 0.1428, 0.2313



# Rectangle

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



31.7875, 0.2827, 0.1998



31.7875, 0.4578, 0.2831



31.7875, 0.3127, 0.5205



31.7875, 0.1791, 0.3595

# Sweetspot

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



31.7888, 0.2827, 0.1998



77.0949, 0.3061, 0.2934



35.8148, 0.2309, 0.2307



15.8259, 0.3049, 0.2876



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.



31.7888, 0.2827, 0.1998



30.7777, 0.2739, 0.1735



36.6406, 0.3344, 0.2275



15.0456, 0.3084, 0.3054



7.3461, 0.2378, 0.1084



0.6292, 0.2495, 0.1148



# Inverse Universe

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



34.1146, 0.3996, 0.2867



34.2239, 0.4294, 0.2795



65.3957, 0.2973, 0.4587



15.1376, 0.3240, 0.3211



10.1650, 0.5627, 0.2873

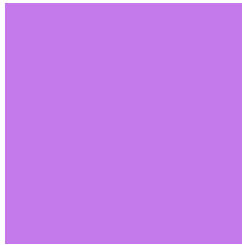


0.8155, 0.5238, 0.2659



# Previews

## White Background



This preview shows how the Yxy color 31.7875, 0.2827, 0.1998 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

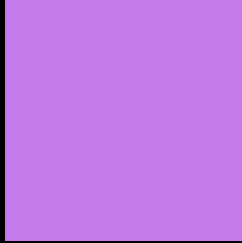
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.7875, 0.2827, 0.1998 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

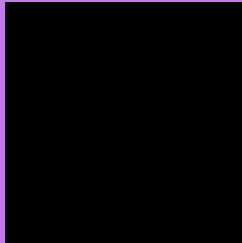
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.7875, 0.2827, 0.1998**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.7875, 0.2827, 0.1998.



This preview shows how white text looks on a background with the Yxy color 31.7875, 0.2827, 0.1998.

# 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

31.7875, 0.2827, 0.1998

### Protanopia

32.2839, 0.2118, 0.1939

### Deuteranopia

32.0356, 0.2297, 0.2231



## Tritanopia

31.5071, 0.3482, 0.3138

# Trichromacy



## Original Color

31.7875, 0.2827, 0.1998



## Protanomaly

31.1962, 0.2312, 0.1933



## Deuteranomaly

31.0223, 0.2453, 0.2115



## Tritanomaly

31.2464, 0.3231, 0.2660

# Monochromacy



## Original Color

31.7875, 0.2827, 0.1998



## Achromatopsia

33.7164, 0.3127, 0.3290



## Achromatomaly

32.2200, 0.3024, 0.2726

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.7875, 0.2827, 0.1998 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, 122, 235)` looks like.

```
.text, #text, p{  
    color:rgb(197, 122, 235)  
}
```

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, 122, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(197, 122, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 31.7875, 0.2827, 0.1998 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, 122, 235) }
```

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

```
.border{ border-color:rgb(197, 122, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(197, 122, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(197, 122, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(197, 122, 235);  
box-shadow:4px 4px 4px 4px rgb(197, 122,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.7875, 0.2827, 0.1998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(197, 122, 235) }
```

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

```
.background{ background-color: rgb(197,  
122, 235) }
```

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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