

# Converting Colors

$Y_{xy}(31.9785, 0.2629, 0.2087)$

Have a look what the booklet for  
Yxy(31.9785, 0.2629, 0.2087)  
contains.

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# Color

**Yxy(31.9818, 0.2631, 0.2083)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AC87E9
RGB	172, 135, 233
RGB Percent	67%, 53%, 91%
CMY	0.3253, 0.4707, 0.0861
CMYK	0.26, 0.42, 0.00, 0.09
HSL	263°, 69%, 72%
HSV	263°, 42%, 91%
XYZ	40.3956, 31.9818, 81.1598
YIQ	157.2350, -9.4060, 38.3220

# Conversions

## Conversions Part 2

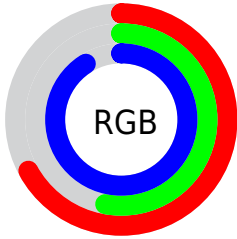
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	172, 135, 233
Decimal	11306985
CIE <sub>Lab</sub>	63.33, 34.00, -44.57
CIE <sub>LCh</sub>	63, 56.052, 307.336
Yxy	31.9818, 0.2631, 0.2083
Android (android.graphics.Color)	4289497065 (0xFFAC87E9)
YUV	157.2350, 37.3521, 12.9489
Hunter-Lab	56.5525, 28.5365, -45.5018

# Details

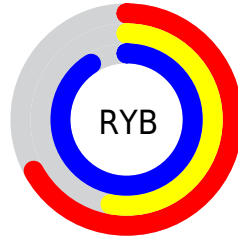
The Yxy color **31.9818, 0.2631, 0.2083** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **71.7776, 0.3477, 0.4435**, and the grayscale version is **33.6619, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.2732, 0.2962, 0.2604**, and **13.2969, 0.2461, 0.1775** is the 20% darker color. If you saturate the color by 10%, you get **24.6256, 0.2478, 0.1770**, and if you desaturate by 10%, it is **40.9423, 0.2773, 0.2397**.

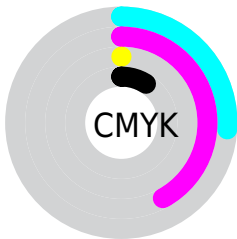
# Distribution



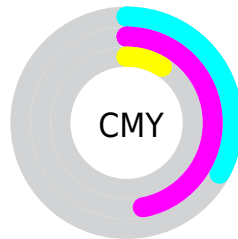
- Red (67%)
- Green (53%)
- Blue (91%)



- Red (67%)
- Yellow (53%)
- Blue (91%)



- Cyan (26%)
- Magenta (42%)
- Yellow (0%)
- Black (9%)




- Cyan (33%)
- Magenta (47%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.9818, 0.2631, 0.2083 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 31.9818, 0.2631, 0.2083 by changing the saturation by 10% instead.




 31.9818, 0.2631,  
0.2083


 31.9818, 0.2631,  
0.2083


311.0363, 0.2900,  
0.2662

 21.3476, 0.2560,  
0.1949


 62.7826, 0.2732,  
0.2286

 13.3783, 0.2466,  
0.1784


 83.7179, 0.2770,  
0.2364

 7.6896, 0.2340,  
0.1578


 108.8557, 0.2800,  
0.2432

 3.8970, 0.2164,  
0.1316

138.5805, 0.2827,  
0.2490

 1.6161, 0.1905,  
0.0981

173.2765, 0.2849,  
0.2541

 0.3684, 0.1529,  
0.0459

213.3283, 0.2868,


 0.0000, 0.0404,


0.2586


0.0000

259.1201, 0.2885,  
0.2626

 0.0000, 0.0000,  
0.0000

 31.9818, 0.2631,  
0.2083

 31.9818, 0.2631,  
0.2083


 24.6256, 0.2478,  
0.1770


 40.9423, 0.2773,  
0.2397


 18.7704, 0.2319,  
0.1472

 51.5941, 0.2900,  
0.2698


 14.3064, 0.2161,  
0.1208

 64.0224, 0.3012,  
0.2981

 11.1062, 0.2013,  
0.0995

 78.3053, 0.3109,  
0.3239

 9.0177, 0.1883,  
0.0843

 94.5163, 0.3191,  
0.3473

■ 7.9640, 0.1796,  
0.0763

■ 98.6651, 0.3256,  
0.3502

# Harmonies

## Analogous

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



31.9818, 0.2006, 0.1984



31.9818, 0.2631, 0.2083



31.9818, 0.3503, 0.2415

# Triad

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



31.9818, 0.2631, 0.2083



31.9818, 0.4751, 0.4160



31.9818, 0.1974, 0.3537

# Complementary

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



31.9818, 0.2631, 0.2083



71.7776, 0.3477, 0.4435

# 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.



31.9818, 0.2604, 0.4482



31.9818, 0.2631, 0.2083



31.9818, 0.4208, 0.4718

# Square

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



31.9818, 0.2631, 0.2083



31.9818, 0.4842, 0.3528



31.9818, 0.3423, 0.4931



31.9818, 0.1670, 0.2671



# Rectangle

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



31.9818, 0.2631, 0.2083



31.9818, 0.4104, 0.2740



31.9818, 0.3423, 0.4931



31.9818, 0.2151, 0.3871

# Sweetspot

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



31.9830, 0.2631, 0.2083



76.9398, 0.3002, 0.2954



51.0036, 0.2478, 0.2829



15.7137, 0.2978, 0.2893



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.



31.9830, 0.2631, 0.2083



31.7227, 0.2507, 0.1826



38.4169, 0.3056, 0.2220



14.8263, 0.3039, 0.3051



4.5829, 0.1811, 0.0771



0.4134, 0.1966, 0.0856



# Inverse Universe

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



38.6359, 0.3535, 0.2614



41.0637, 0.3647, 0.2491



66.3467, 0.3146, 0.4563



15.2116, 0.3196, 0.3144



11.0134, 0.4449, 0.2224

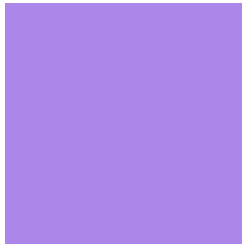


0.8834, 0.4231, 0.2104



# Previews

## White Background



This preview shows how the Yxy color 31.9818, 0.2631, 0.2083 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

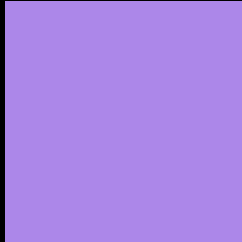
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.9818, 0.2631, 0.2083 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

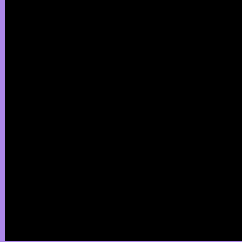
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.9818, 0.2631, 0.2083**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.9818, 0.2631, 0.2083.



This preview shows how white text looks on a background with the Yxy color 31.9818, 0.2631, 0.2083.

# 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

31.9818, 0.2631, 0.2083

### Protanopia

32.1795, 0.2192, 0.2030

### Deuteranopia

32.3615, 0.2299, 0.2245



## Tritanopia

31.7923, 0.3105, 0.3112

# Trichromacy



**Original Color**

31.9818, 0.2631, 0.2083

**Protanomaly**

31.8359, 0.2326, 0.2048

**Deuteranomaly**

31.6742, 0.2403, 0.2172

**Tritanomaly**

31.7742, 0.2920, 0.2689

# Monochromacy



**Original Color**

31.9818, 0.2631, 0.2083

**Achromatopsia**

33.7164, 0.3127, 0.3290

**Achromatomaly**

32.6791, 0.2929, 0.2782

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.9818, 0.2631, 0.2083 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(172, 135, 233)` looks like.

```
.text, #text, p{  
    color:rgb(172, 135, 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(172, 135, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 135, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 31.9818, 0.2631, 0.2083 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(172, 135, 233) }
```

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

```
.border{ border-color:rgb(172, 135, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 135, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 135, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 135, 233);  
box-shadow:4px 4px 4px 4px rgb(172, 135,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.9818, 0.2631, 0.2083 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 135, 233) }
```

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

```
.background{ background-color: rgb(172,  
135, 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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