

# Converting Colors

$Y_{xy}(31.6183, 0.2651, 0.1884)$

Have a look what the booklet for  
Yxy(31.6183, 0.2651, 0.1884)  
contains.

|   |    |
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# Color

**Yxy(31.6955, 0.2649, 0.1887)**

# Conversions

## Conversions Part 1

| Format      | Color                      |
|-------------|----------------------------|
| Hex         | BB7CF7                     |
| RGB         | 187, 124, 247              |
| RGB Percent | 73%, 49%, 97%              |
| CMY         | 0.2666, 0.5138, 0.0313     |
| CMYK        | 0.24, 0.50, 0.00, 0.03     |
| HSL         | 271°, 89%, 73%             |
| HSV         | 271°, 50%, 97%             |
| XYZ         | 44.4946, 31.6955, 91.7775  |
| YIQ         | 156.8590, -1.9350, 51.6090 |

# Conversions

## Conversions Part 2

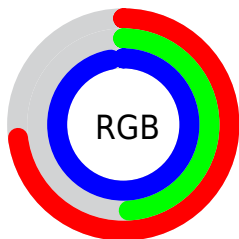
| Format                              | Color  |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">187, 124, 247</a>                  |
| Decimal                             | <a href="#">12287223</a>                       |
| CIELab                              | <a href="#">63.09, 47.33, -52.56</a>           |
| CIELCh                              | <a href="#">63, 70.729, 312.000</a>            |
| Yxy                                 | <a href="#">31.6955, 0.2649,<br/>0.1887</a>    |
| Android<br>(android.graphics.Color) | <a href="#">4290477303<br/>(0xFFBB7CF7)</a>    |
| YUV                                 | <a href="#">156.8590, 44.4395,<br/>26.4337</a> |
| Hunter-Lab                          | <a href="#">56.2988, 42.5512,<br/>-57.2447</a> |

# Details

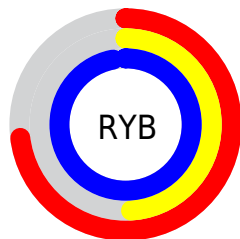
The Yxy color **31.6955, 0.2649, 0.1887** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **78.1717, 0.3413, 0.4709**, and the grayscale version is **33.4485, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.4733, 0.3084, 0.2518**, and **13.3081, 0.2489, 0.1575** is the 20% darker color. If you saturate the color by 10%, you get **24.8061, 0.2521, 0.1606**, and if you desaturate by 10%, it is **40.2650, 0.2769, 0.2183**.

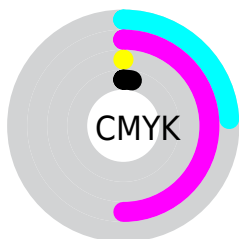
# Distribution



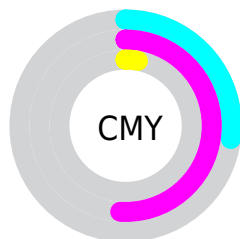
- Red (73%)
- Green (49%)
- Blue (97%)



- Red (73%)
- Yellow (49%)
- Blue (97%)



- Cyan (24%)
- Magenta (50%)
- Yellow (0%)
- Black (3%)




- Cyan (27%)
- Magenta (51%)
- Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.6955, 0.2649, 0.1887 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 31.6955, 0.2649, 0.1887 by changing the saturation by 10% instead.





 31.6955, 0.2649,  
0.1887


 31.6955, 0.2649,  
0.1887


309.7298, 0.2915,  
0.2539

 21.1290, 0.2578,  
0.1742


 62.3334, 0.2750,  
0.2111

 13.2183, 0.2485,  
0.1568

 83.1737, 0.2787,  
0.2199

 7.5791, 0.2360,  
0.1355


 108.2073, 0.2817,  
0.2275

 3.8268, 0.2186,  
0.1094

137.8187, 0.2843,  
0.2341

 1.5772, 0.1935,  
0.0779

172.3922, 0.2865,  
0.2400

 0.3421, 0.1577,  
0.0326

212.3123, 0.2884,

 0.0000, 0.0901,

0.2452

0.0000

257.9634, 0.2900,  
0.2498

0.0000, 0.0000,  
0.0000

31.6955, 0.2649,  
0.1887

31.6955, 0.2649,  
0.1887

24.8061, 0.2521,  
0.1606

40.2650, 0.2769,  
0.2183

19.4720, 0.2390,  
0.1354

50.6198, 0.2878,  
0.2481

15.5562, 0.2261,  
0.1147

62.8605, 0.2974,  
0.2770

12.8948, 0.2141,  
0.0994

77.0790, 0.3057,  
0.3043

11.2231, 0.2032,  
0.0894

93.3611, 0.3128,  
0.3295

■ 11.1945, 0.2030,  
0.0892

■ 99.4961, 0.3173,  
0.3366

# Harmonies

## Analogous

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



31.6955, 0.1858, 0.1722



31.6955, 0.2649, 0.1887



31.6955, 0.3766, 0.2308

# Triad

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



31.6955, 0.2649, 0.1887



31.6955, 0.5008, 0.4373



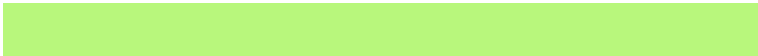
31.6955, 0.1625, 0.3376

# Complementary

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



31.6955, 0.2649, 0.1887



78.1717, 0.3413, 0.4709

# 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.



31.6955, 0.2301, 0.4681



31.6955, 0.2649, 0.1887



31.6955, 0.4242, 0.5095

# Square

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



31.6955, 0.2649, 0.1887



31.6955, 0.5286, 0.3617



31.6955, 0.3264, 0.5377



31.6955, 0.1358, 0.2360



# Rectangle

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



31.6955, 0.2649, 0.1887



31.6955, 0.4517, 0.2700



31.6955, 0.3264, 0.5377



31.6955, 0.1805, 0.3813

# Sweetspot

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



31.6967, 0.2649, 0.1887



74.6094, 0.3015, 0.2903



45.9086, 0.2324, 0.2507



15.2913, 0.2997, 0.2845



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.



31.6967, 0.2649, 0.1887



26.4732, 0.2517, 0.1598



40.9054, 0.3184, 0.2088



16.3441, 0.3060, 0.3051



6.0047, 0.2047, 0.0901



0.5889, 0.2181, 0.0975



# Inverse Universe

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



37.6491, 0.3829, 0.2659



33.9215, 0.4055, 0.2552



72.2682, 0.3053, 0.4879



16.6172, 0.3217, 0.3175



11.2093, 0.5013, 0.2535

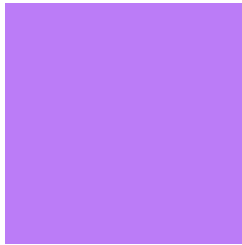


1.0059, 0.4726, 0.2377



# Previews

## White Background



This preview shows how the Yxy color 31.6955, 0.2649, 0.1887 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

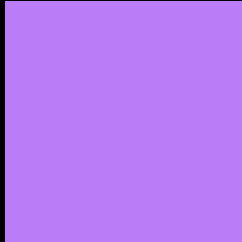
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.6955, 0.2649, 0.1887 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

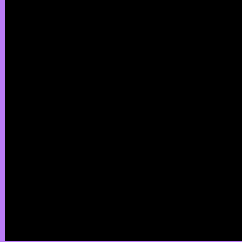
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.6955, 0.2649, 0.1887**

## Background



This preview shows how black text looks on a background with the Yxy color 31.6955, 0.2649, 0.1887.

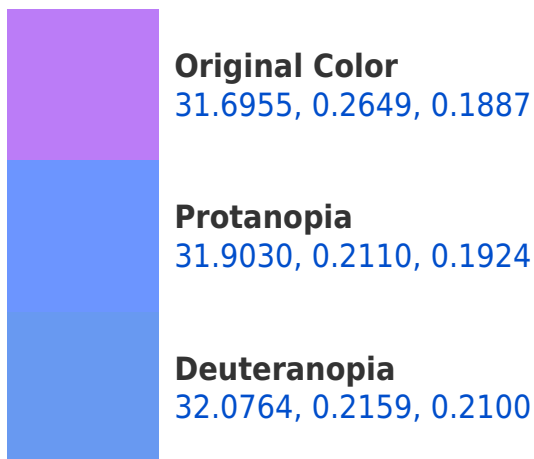


This preview shows how white text looks on a background with the Yxy color 31.6955, 0.2649, 0.1887.

# 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

31.6500, 0.3281, 0.3132

# Trichromacy



## Original Color

31.6955, 0.2649, 0.1887



## Protanomaly

31.1028, 0.2265, 0.1891



## Deuteranomaly

30.8854, 0.2296, 0.1987



## Tritanomaly

31.2418, 0.3028, 0.2591

# Monochromacy



## Original Color

31.6955, 0.2649, 0.1887



## Achromatopsia

33.7164, 0.3127, 0.3290



## Achromatomaly

32.2933, 0.2941, 0.2670

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.6955, 0.2649, 0.1887 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(187, 124, 247)` looks like.

```
.text, #text, p{  
    color:rgb(187, 124, 247)  
}
```

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(187, 124, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 124, 247) }
```

## Border

The CSS property to change the border of an element to Yxy 31.6955, 0.2649, 0.1887 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(187, 124, 247) }
```

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

```
.border{ border-color:rgb(187, 124, 247) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 124, 247)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 124, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 124, 247);  
box-shadow:4px 4px 4px 4px rgb(187, 124,  
247) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.6955, 0.2649, 0.1887 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 124, 247) }
```

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

```
.background{ background-color: rgb(187,  
124, 247) }
```

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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