

# Converting Colors

$Y_{xy}(31.4595, 0.2591, 0.1796)$

Have a look what the booklet for  
Yxy(31.4595, 0.2591, 0.1796)  
contains.

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**Color**

**Yxy(31.4595, 0.2591, 0.1796)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB79FF
RGB	187, 121, 255
RGB Percent	73%, 47%, 100%
CMY	0.2667, 0.5255, 0.0000
CMYK	0.27, 0.53, 0.00, 0.00
HSL	270°, 100%, 74%
HSV	270°, 53%, 100%
XYZ	45.3851, 31.4595, 98.3197
YIQ	156.0100, -3.6780, 55.6660

# Conversions

## Conversions Part 2

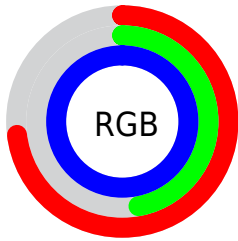
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 121, 255
Decimal	12286463
CIE <sub>Lab</sub>	62.89, 50.75, -57.29
CIE <sub>LCh</sub>	63, 76.532, 311.536
Yxy	31.4595, 0.2591, 0.1796
Android (android.graphics.Color)	4290476543 (0xFFBB79FF)
YUV	156.0100, 48.8021, 27.1782
Hunter-Lab	56.0888, 46.2806, -64.6691

# Details

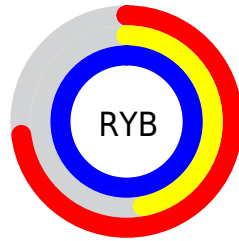
The Yxy color **31.4595, 0.2591, 0.1796** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **83.7186, 0.3440, 0.4784**, and the grayscale version is **33.0282, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.4728, 0.3093, 0.2490**, and **13.0333, 0.2415, 0.1470** is the 20% darker color. If you saturate the color by 10%, you get **24.4994, 0.2457, 0.1518**, and if you desaturate by 10%, it is **40.2017, 0.2719, 0.2094**.

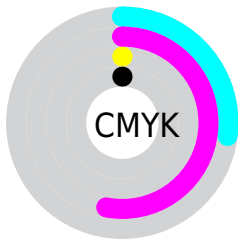
# Distribution



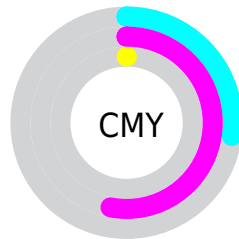
- Red (73%)
- Green (47%)
- Blue (100%)



- Red (73%)
- Yellow (47%)
- Blue (100%)



- Cyan (27%)
- Magenta (53%)
- Yellow (0%)
- Black (0%)




- Cyan (27%)
- Magenta (53%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.4595, 0.2591, 0.1796 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 31.4595, 0.2591, 0.1796 by changing the saturation by 10% instead.




 31.4595, 0.2591,  
0.1796


 31.4595, 0.2591,  
0.1796


308.6497, 0.2887,  
0.2482


 20.9490, 0.2513,  
0.1647


 61.9628, 0.2703,  
0.2029

 13.0867, 0.2412,  
0.1469


 82.7244, 0.2744,  
0.2121

 7.4883, 0.2277,  
0.1254


 107.6717, 0.2778,  
0.2202

 3.7693, 0.2092,  
0.0996

137.1893, 0.2807,  
0.2272

 1.5454, 0.1831,  
0.0691

171.6615, 0.2831,  
0.2334

 0.3203, 0.1469,  
0.0268

211.4727, 0.2852,


 0.0000, 0.0861,


0.2388


0.0000

257.0073, 0.2871,  
0.2438

 0.0000, 0.0000,  
0.0000


 31.4595, 0.2591,  
0.1796

 31.4595, 0.2591,  
0.1796


 24.4994, 0.2457,  
0.1518


 40.2017, 0.2719,  
0.2094


 19.1892, 0.2321,  
0.1274

 50.8512, 0.2836,  
0.2395


 15.3712, 0.2190,  
0.1079

 63.5172, 0.2940,  
0.2690

 12.8564, 0.2070,  
0.0940

 78.3014, 0.3031,  
0.2969

 11.6254, 0.1990,  
0.0870

 95.2988, 0.3109,  
0.3228

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



31.4595, 0.1764, 0.1626



31.4595, 0.2591, 0.1796



31.4595, 0.3792, 0.2233

# Triad

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



31.4595, 0.2591, 0.1796



31.4595, 0.5128, 0.4388



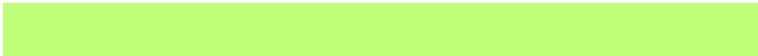
31.4595, 0.1526, 0.3390

# Complementary

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



31.4595, 0.2591, 0.1796



83.7186, 0.3440, 0.4784

# 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.



31.4595, 0.2238, 0.4838



31.4595, 0.2591, 0.1796



31.4595, 0.4298, 0.5192

# Square

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



31.4595, 0.2591, 0.1796



31.4595, 0.5445, 0.3591



31.4595, 0.3258, 0.5566



31.4595, 0.1252, 0.2291



# Rectangle

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



31.4595, 0.2591, 0.1796



31.4595, 0.4613, 0.2640



31.4595, 0.3258, 0.5566



31.4595, 0.1714, 0.3874

# Sweetspot

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



31.4582, 0.2591, 0.1796



72.9570, 0.3001, 0.2874



48.2116, 0.2286, 0.2483



14.9596, 0.2983, 0.2817



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.



31.4582, 0.2591, 0.1796



24.2267, 0.2451, 0.1506



41.7324, 0.3166, 0.2023



17.8170, 0.3056, 0.3050



6.1629, 0.2006, 0.0879



0.6649, 0.2129, 0.0947



# Inverse Universe

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



38.6074, 0.3857, 0.2601



32.4573, 0.4084, 0.2496



77.1282, 0.3059, 0.4975



18.1409, 0.3214, 0.3170



11.9728, 0.4933, 0.2491

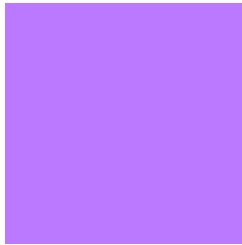


1.1878, 0.4683, 0.2353



# Previews

## White Background



This preview shows how the Yxy color 31.4595, 0.2591, 0.1796 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

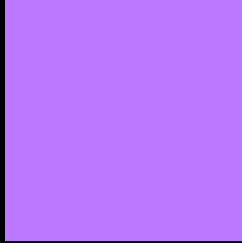
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.4595, 0.2591, 0.1796 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

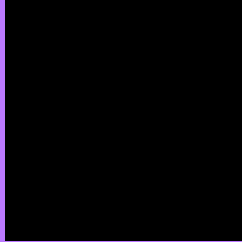
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.4595, 0.2591, 0.1796**

## Background



This preview shows how black text looks on a background with the Yxy color 31.4595, 0.2591, 0.1796.

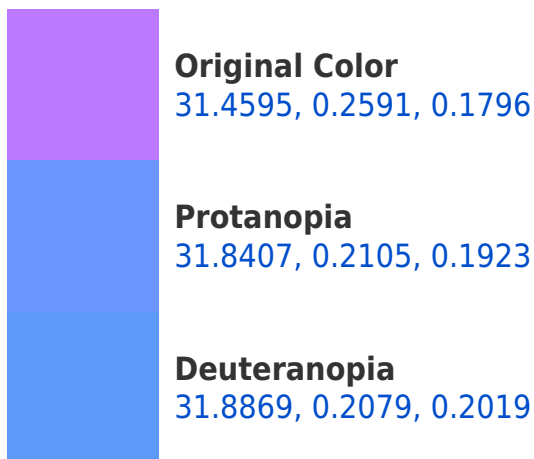


This preview shows how white text looks on a background with the Yxy color 31.4595, 0.2591, 0.1796.

# 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

31.4271, 0.3260, 0.3130

# Trichromacy



## Original Color

31.4595, 0.2591, 0.1796



## Protanomaly

30.9195, 0.2242, 0.1852



## Deuteranomaly

30.5268, 0.2210, 0.1890



## Tritanomaly

30.9717, 0.2991, 0.2540

# Monochromacy



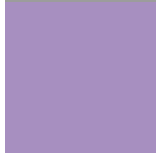
## Original Color

31.4595, 0.2591, 0.1796



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

31.6662, 0.2914, 0.2616

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.4595, 0.2591, 0.1796 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, 121, 255)` looks like.

```
.text, #text, p{  
    color:rgb(187, 121, 255)  
}
```

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, 121, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 121, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 31.4595, 0.2591, 0.1796 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, 121, 255) }
```

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

```
.border{ border-color:rgb(187, 121, 255) }
```

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

Here you see how a box with a 4 pixel rgb(187, 121, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 121, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 121, 255);  
box-shadow:4px 4px 4px 4px rgb(187, 121,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.4595, 0.2591, 0.1796 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 121, 255) }
```

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

```
.background{ background-color: rgb(187,  
121, 255) }
```

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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