

# Converting Colors

$Y_{xy}(34.6538, 0.2296, 0.1576)$

Have a look what the booklet for  
Yxy(34.6538, 0.2296, 0.1576)  
contains.

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# Color

**Yxy(31.8884, 0.2510, 0.1832)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B080FF
RGB	176, 128, 255
RGB Percent	69%, 50%, 100%
CMY	0.3095, 0.4982, 0.0000
CMYK	0.31, 0.50, 0.00, 0.00
HSL	263°, 100%, 75%
HSV	263°, 50%, 100%
XYZ	43.6899, 31.8884, 98.4850
YIQ	156.8300, -12.1590, 49.6730

# Conversions

## Conversions Part 2

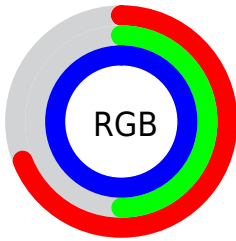
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	176, 128, 255
Decimal	11567359
CIE <sub>Lab</sub>	63.25, 44.28, -56.78
CIE <sub>LCh</sub>	63, 72.006, 307.950
Yxy	31.8884, 0.2510, 0.1832
Android (android.graphics.Color)	4289757439 (0xFFB080FF)
YUV	156.8300, 48.3978, 16.8121
Hunter-Lab	56.4698, 39.2807, -63.8746

# Details

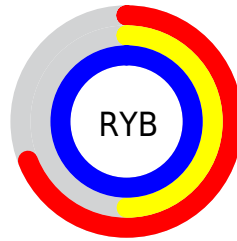
The Yxy color **31.8884, 0.2510, 0.1832** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **86.3263, 0.3527, 0.4659**, and the grayscale version is **33.4195, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.1683, 0.2999, 0.2539**, and **13.3069, 0.2307, 0.1501** is the 20% darker color. If you saturate the color by 10%, you get **24.3118, 0.2351, 0.1529**, and if you desaturate by 10%, it is **41.3500, 0.2662, 0.2148**.

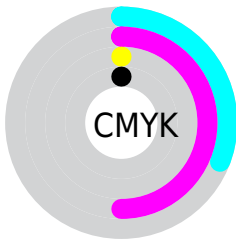
# Distribution



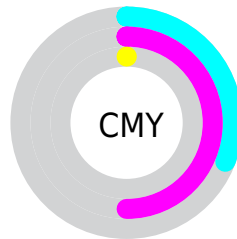
- Red (69%)
- Green (50%)
- Blue (100%)



- Red (69%)
- Yellow (50%)
- Blue (100%)



- Cyan (31%)
- Magenta (50%)
- Yellow (0%)
- Black (0%)




- Cyan (31%)
- Magenta (50%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.8884, 0.2510, 0.1832 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 31.8884, 0.2510, 0.1832 by changing the saturation by 10% instead.





 31.8884, 0.2510,  
0.1832


 31.8884, 0.2510,  
0.1832


310.6106, 0.2842,  
0.2506

 21.2763, 0.2424,  
0.1684


 62.6361, 0.2634,  
0.2062

 13.3261, 0.2314,  
0.1507


 83.5405, 0.2680,  
0.2153

 7.6535, 0.2169,  
0.1292


 108.6443, 0.2718,  
0.2232

 3.8740, 0.1972,  
0.1033

138.3322, 0.2751,  
0.2301

 1.6033, 0.1698,  
0.0724

172.9883, 0.2778,  
0.2361

 0.3599, 0.1324,  
0.0304

212.9971, 0.2803,


 0.0000, 0.0661,


0.2415


0.0000


258.7431, 0.2824,  
0.2463

 0.0000, 0.0000,  
0.0000


 31.8884, 0.2510,  
0.1832

 31.8884, 0.2510,  
0.1832


 24.3118, 0.2351,  
0.1529


 41.3500, 0.2662,  
0.2148


 18.4873, 0.2192,  
0.1256


 52.8204, 0.2801,  
0.2462

 14.2604, 0.2041,  
0.1031

 66.4098, 0.2926,  
0.2761

 11.4486, 0.1907,  
0.0866

 82.2209, 0.3035,  
0.3040

 9.7642, 0.1794,  
0.0763

100.0000, 0.3127,  
0.3290

■ 9.7384, 0.1792,  
0.0761

# Harmonies

## Analogous

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



31.8884, 0.1764, 0.1702



31.8884, 0.2510, 0.1832



31.8884, 0.3612, 0.2225

# Triad

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



31.8884, 0.2510, 0.1832



31.8884, 0.5104, 0.4273



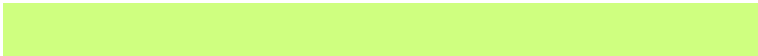
31.8884, 0.1672, 0.3552

# Complementary

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



31.8884, 0.2510, 0.1832



86.3263, 0.3527, 0.4659

# 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.



31.8884, 0.2407, 0.4861



31.8884, 0.2510, 0.1832



31.8884, 0.4373, 0.5028

# Square

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



31.8884, 0.2510, 0.1832



31.8884, 0.5301, 0.3516



31.8884, 0.3398, 0.5423



31.8884, 0.1351, 0.2452



# Rectangle

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



31.8884, 0.2510, 0.1832



31.8884, 0.4394, 0.2605



31.8884, 0.3398, 0.5423



31.8884, 0.1873, 0.4007

# Sweetspot

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



31.8876, 0.2510, 0.1832



73.7453, 0.2980, 0.2899



57.1228, 0.2365, 0.2723



15.0839, 0.2957, 0.2839



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.



31.8876, 0.2510, 0.1832



24.1910, 0.2348, 0.1523



40.8363, 0.3035, 0.2030



17.7129, 0.3038, 0.3048



5.1671, 0.1809, 0.0770



0.5633, 0.1934, 0.0839



# Inverse Universe

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



41.1878, 0.3646, 0.2494



34.7963, 0.3802, 0.2359



79.0882, 0.3141, 0.4841



18.1769, 0.3196, 0.3143



12.4363, 0.4458, 0.2229

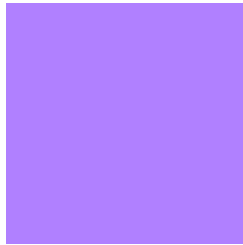


1.2322, 0.4276, 0.2129



# Previews

## White Background



This preview shows how the Yxy color 31.8884, 0.2510, 0.1832 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

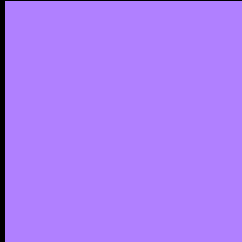
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.8884, 0.2510, 0.1832 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

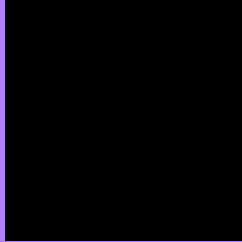
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.8884, 0.2510, 0.1832**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.8884, 0.2510, 0.1832.

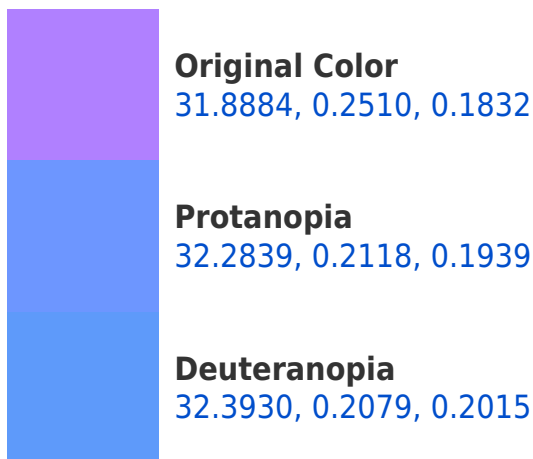


This preview shows how white text looks on a background with the Yxy color 31.8884, 0.2510, 0.1832.

# 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

31.6904, 0.3095, 0.3111

# Trichromacy



## Original Color

31.8884, 0.2510, 0.1832



## Protanomaly

31.5525, 0.2230, 0.1882



## Deuteranomaly

31.5642, 0.2197, 0.1926



## Tritanomaly

31.3309, 0.2860, 0.2549

# Monochromacy



## Original Color

31.8884, 0.2510, 0.1832



## Achromatopsia

33.7164, 0.3127, 0.3290



## Achromatomaly

32.3005, 0.2878, 0.2640

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.8884, 0.2510, 0.1832 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(176, 128, 255)` looks like.

```
.text, #text, p{  
    color:rgb(176, 128, 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(176, 128, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 128, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 31.8884, 0.2510, 0.1832 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(176, 128, 255) }
```

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

```
.border{ border-color:rgb(176, 128, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 128, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 128, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 128, 255);  
box-shadow:4px 4px 4px 4px rgb(176, 128,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.8884, 0.2510, 0.1832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 128, 255) }
```

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

```
.background{ background-color: rgb(176,  
128, 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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