

# Converting Colors

$Y_{xy}(31.9365, 0.2573, 0.2083)$

Have a look what the booklet for  
Yxy(31.9365, 0.2573, 0.2083)  
contains.

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# Color

**Yxy(31.9388, 0.2577, 0.2082)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A689EA
RGB	166, 137, 234
RGB Percent	65%, 54%, 92%
CMY	0.3488, 0.4628, 0.0823
CMYK	0.29, 0.41, 0.00, 0.08
HSL	258°, 70%, 73%
HSV	258°, 41%, 92%
XYZ	39.5323, 31.9388, 81.9333
YIQ	156.7290, -13.8530, 36.3150

# Conversions

## Conversions Part 2

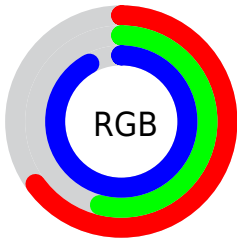
Format	Color
<a href="#">RYB</a>	<a href="#">166, 137, 234</a>
Decimal	<a href="#">10914282</a>
CIELab	<a href="#">63.29, 31.45, -45.20</a>
CIElCh	<a href="#">63, 55.067, 304.830</a>
Yxy	<a href="#">31.9388, 0.2577, 0.2082</a>
Android (android.graphics.Color)	<a href="#">4289104362 (0xFFA689EA)</a>
YUV	<a href="#">156.7290, 38.0946, 8.1307</a>
Hunter-Lab	<a href="#">56.5144, 25.9620, -46.3972</a>

# Details

The Yxy color **31.9388, 0.2577, 0.2082** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **73.6301, 0.3529, 0.4396**, and the grayscale version is **33.4221, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.1696, 0.2918, 0.2616**, and **13.4102, 0.2395, 0.1784** is the 20% darker color. If you saturate the color by 10%, you get **24.3335, 0.2408, 0.1757**, and if you desaturate by 10%, it is **41.2149, 0.2735, 0.2404**.

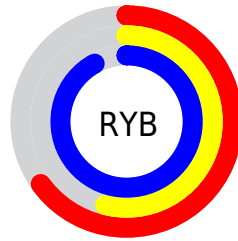
# Distribution



Red (65%)

Green (54%)

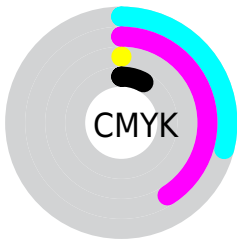
Blue (92%)



Red (65%)

Yellow (54%)

Blue (92%)

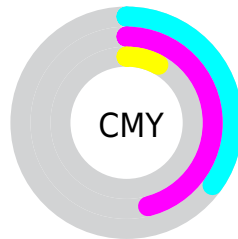


Cyan (29%)

Magenta (41%)

Yellow (0%)

Black (8%)



Cyan (35%)

Magenta (46%)

Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.9388, 0.2577, 0.2082 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 31.9388, 0.2577, 0.2082 by changing the saturation by 10% instead.





 31.9388, 0.2577,  
0.2082


 31.9388, 0.2577,  
0.2082


310.8404, 0.2872,  
0.2663

 21.3148, 0.2500,  
0.1948


 62.7151, 0.2688,  
0.2286

 13.3543, 0.2399,  
0.1782


 83.6362, 0.2728,  
0.2364

 7.6730, 0.2264,  
0.1574


 108.7584, 0.2762,  
0.2432

 3.8864, 0.2076,  
0.1311

138.4662, 0.2791,  
0.2491

 1.6102, 0.1805,  
0.0974

173.1439, 0.2816,  
0.2542

 0.3645, 0.1416,  
0.0451

213.1758, 0.2837,

 0.0000, 0.0195,


0.2587


0.0000


258.9466, 0.2856,  
0.2627


 0.0000, 0.0000,  
0.0000


 31.9388, 0.2577,  
0.2082


 31.9388, 0.2577,  
0.2082


 24.3335, 0.2408,  
0.1757


 41.2149, 0.2735,  
0.2404


 18.2926, 0.2234,  
0.1447


 52.2519, 0.2878,  
0.2711

 13.7030, 0.2064,  
0.1170

 65.1376, 0.3003,  
0.2996

 10.4341, 0.1909,  
0.0947

 79.9531, 0.3113,  
0.3254

 8.3304, 0.1778,  
0.0789

 96.7743, 0.3206,  
0.3486

■ 7.2477, 0.1689,  
0.0704

■ 98.7213, 0.3250,  
0.3493

# Harmonies

## Analogous

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



31.9388, 0.1985, 0.2006



31.9388, 0.2577, 0.2082



31.9388, 0.3421, 0.2393

# Triad

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



31.9388, 0.2577, 0.2082



31.9388, 0.4754, 0.4100



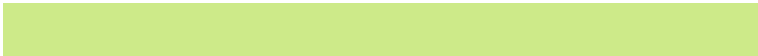
31.9388, 0.2033, 0.3616

# Complementary

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



31.9388, 0.2577, 0.2082



73.6301, 0.3529, 0.4396

# 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.



31.9388, 0.2678, 0.4521



31.9388, 0.2577, 0.2082



31.9388, 0.4251, 0.4660

# Square

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



31.9388, 0.2577, 0.2082



31.9388, 0.4796, 0.3476



31.9388, 0.3491, 0.4907



31.9388, 0.1703, 0.2742



# Rectangle

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



31.9388, 0.2577, 0.2082



31.9388, 0.4018, 0.2705



31.9388, 0.3491, 0.4907



31.9388, 0.2217, 0.3942

# Sweetspot

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



31.9400, 0.2577, 0.2082



78.1660, 0.2996, 0.2980



55.6522, 0.2505, 0.2943



16.2666, 0.2981, 0.2944



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.



31.9400, 0.2577, 0.2082



30.6030, 0.2429, 0.1797



37.9719, 0.2984, 0.2212



14.7677, 0.3027, 0.3050



4.1294, 0.1703, 0.0712



0.3727, 0.1849, 0.0792



# Inverse Universe

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



39.7856, 0.3449, 0.2547



41.5675, 0.3543, 0.2399



67.9289, 0.3198, 0.4522



15.2324, 0.3184, 0.3126



11.3570, 0.4143, 0.2056



0.9086, 0.3982, 0.1967



# Previews

## White Background



This preview shows how the Yxy color 31.9388, 0.2577, 0.2082 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

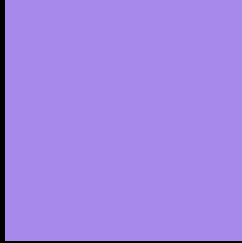
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.9388, 0.2577, 0.2082 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

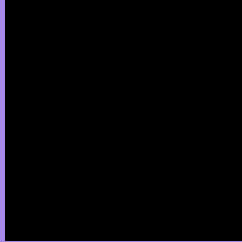
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.9388, 0.2577, 0.2082**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.9388, 0.2577, 0.2082.



This preview shows how white text looks on a background with the Yxy color 31.9388, 0.2577, 0.2082.

# 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

31.9388, 0.2577, 0.2082

### Protanopia

32.1795, 0.2192, 0.2030

### Deuteranopia

32.3339, 0.2277, 0.2221



## Tritanopia

31.8122, 0.3018, 0.3109

# Trichromacy



## Original Color

31.9388, 0.2577, 0.2082

## Protanomaly

31.7299, 0.2307, 0.2035

## Deuteranomaly

31.8445, 0.2373, 0.2159

## Tritanomaly

31.7097, 0.2847, 0.2693

# Monochromacy



## Original Color

31.9388, 0.2577, 0.2082

## Achromatopsia

33.7164, 0.3127, 0.3290

## Achromatomaly

32.7891, 0.2910, 0.2793

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.9388, 0.2577, 0.2082 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(166, 137, 234)` looks like.

```
.text, #text, p{  
    color:rgb(166, 137, 234)  
}
```

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(166, 137, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 137, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 31.9388, 0.2577, 0.2082 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(166, 137, 234) }
```

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

```
.border{ border-color:rgb(166, 137, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 137, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 137, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 137, 234);  
box-shadow:4px 4px 4px 4px rgb(166, 137,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.9388, 0.2577, 0.2082 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 137, 234) }
```

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

```
.background{ background-color: rgb(166,  
137, 234) }
```

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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