

# Converting Colors

$Y_{xy}(39.9580, 0.2587, 0.2120)$

Have a look what the booklet for  
Yxy(39.9580, 0.2587, 0.2120)  
contains.

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# Color

**Yxy(39.9475, 0.2586, 0.2120)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B699FF
RGB	182, 153, 255
RGB Percent	71%, 60%, 100%
CMY	0.2864, 0.4000, 0.0000
CMYK	0.29, 0.40, 0.00, 0.00
HSL	257°, 100%, 80%
HSV	257°, 40%, 100%
XYZ	48.7284, 39.9475, 99.7557
YIQ	173.2990, -15.4580, 37.8700

# Conversions

## Conversions Part 2

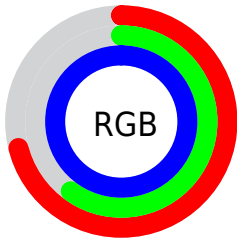
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	182, 153, 255
Decimal	11966975
CIE <sub>Lab</sub>	69.43, 31.93, -46.95
CIE <sub>LCh</sub>	69, 56.782, 304.222
Yxy	39.9475, 0.2586, 0.2120
Android (android.graphics.Color)	4290157055 (0xFFB699FF)
<b>YUV</b>	173.2990, 40.2786, 7.6308
Hunter-Lab	63.2040, 27.0111, -49.3353

# Details

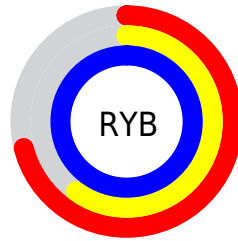
The Yxy color **39.9475, 0.2586, 0.2120** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **89.9952, 0.3529, 0.4357**, and the grayscale version is **41.7455, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.8570, 0.3042, 0.2816**, and **18.0156, 0.2422, 0.1853** is the 20% darker color. If you saturate the color by 10%, you get **30.3938, 0.2414, 0.1791**, and if you desaturate by 10%, it is **51.5766, 0.2746, 0.2444**.

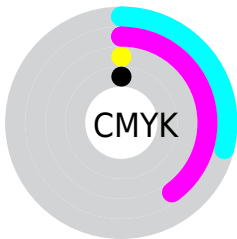
# Distribution



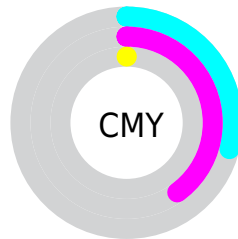
- Red (71%)
- Green (60%)
- Blue (100%)



- Red (71%)
- Yellow (60%)
- Blue (100%)



- Cyan (29%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)



- Cyan (29%)
- Magenta (40%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.9475, 0.2586, 0.2120 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 39.9475, 0.2586, 0.2120 by changing the saturation by 10% instead.




 39.9475, 0.2586,  
0.2120


 39.9475, 0.2586,  
0.2120


345.9022, 0.2866,  
0.2663

 27.4976, 0.2516,  
0.1998


 75.0836, 0.2688,  
0.2307

 17.9473, 0.2427,  
0.1851


 98.5385, 0.2727,  
0.2380

 10.9122, 0.2310,  
0.1668


126.4306, 0.2759,  
0.2444

 6.0078, 0.2152,  
0.1439

159.1443, 0.2787,  
0.2499

 2.8498, 0.1930,  
0.1149

197.0639, 0.2811,  
0.2548

 1.0538, 0.1610,  
0.0786

240.5738, 0.2831,


 0.0000, 0.1173,


0.2591


0.0000

290.0585, 0.2850,  
0.2629


 0.0000, 0.0000,  
0.0000


 39.9475, 0.2586,  
0.2120


 39.9475, 0.2586,  
0.2120

 30.3938, 0.2414,  
0.1791


 51.5766, 0.2746,  
0.2444

 22.7866, 0.2236,  
0.1475

 65.3931, 0.2890,  
0.2751

 16.9871, 0.2063,  
0.1190

 81.5043, 0.3017,  
0.3034

 12.8362, 0.1904,  
0.0957

100.0000, 0.3127,  
0.3290

 10.1454, 0.1770,  
0.0791

■ 8.6143, 0.1666,  
0.0692

■ 8.6137, 0.1666,  
0.0692

# Harmonies

## Analogous

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



39.9475, 0.2018, 0.2052



39.9475, 0.2586, 0.2120



39.9475, 0.3393, 0.2417

# Triad

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



39.9475, 0.2586, 0.2120



39.9475, 0.4698, 0.4069



39.9475, 0.2087, 0.3623

# Complementary

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



39.9475, 0.2586, 0.2120



89.9952, 0.3529, 0.4357

# 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.



39.9475, 0.2716, 0.4475



39.9475, 0.2586, 0.2120



39.9475, 0.4228, 0.4603

# Square

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



39.9475, 0.2586, 0.2120



39.9475, 0.4721, 0.3466



39.9475, 0.3501, 0.4835



39.9475, 0.1757, 0.2783



# Rectangle

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



39.9475, 0.2586, 0.2120



39.9475, 0.3964, 0.2718



39.9475, 0.3501, 0.4835



39.9475, 0.2267, 0.3931

# Sweetspot

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



39.9486, 0.2586, 0.2120



78.0853, 0.2993, 0.2979



68.4426, 0.2522, 0.2955



16.2477, 0.2977, 0.2943



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.



39.9486, 0.2586, 0.2120



32.1403, 0.2449, 0.1857



47.3138, 0.2990, 0.2245



17.6275, 0.3023, 0.3047



4.5655, 0.1681, 0.0699



0.4969, 0.1796, 0.0763



# Inverse Universe

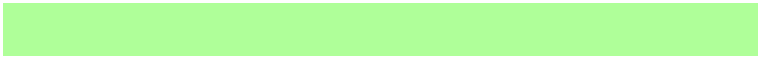
The Inverse Universe completely reimagines the original color for something new.



49.5396, 0.3422, 0.2554



43.1058, 0.3502, 0.2414



82.9470, 0.3197, 0.4479



18.2072, 0.3182, 0.3121



12.9132, 0.4089, 0.2026

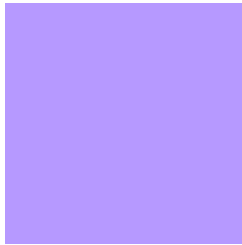


1.2761, 0.3964, 0.1958



# Previews

## White Background



This preview shows how the Yxy color 39.9475, 0.2586, 0.2120 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

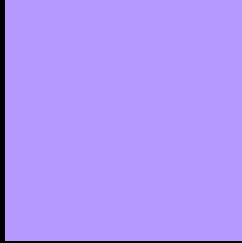
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.9475, 0.2586, 0.2120 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

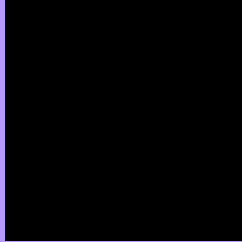
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 39.9475, 0.2586, 0.2120**

## Background



This preview shows how black text looks on a background with the Yxy color 39.9475, 0.2586, 0.2120.



This preview shows how white text looks on a background with the Yxy color 39.9475, 0.2586, 0.2120.

# 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

39.9475, 0.2586, 0.2120

### Protanopia

40.2607, 0.2317, 0.2203

### Deuteranopia

40.3908, 0.2308, 0.2250



## Tritanopia

40.0782, 0.3011, 0.3112

# Trichromacy



## Original Color

39.9475, 0.2586, 0.2120

## Protanomaly

39.9307, 0.2405, 0.2168

## Deuteranomaly

39.8655, 0.2398, 0.2193

## Tritanomaly

39.6821, 0.2840, 0.2694

# Monochromacy



## Original Color

39.9475, 0.2586, 0.2120

## Achromatopsia

41.7885, 0.3127, 0.3290

## Achromatomaly

40.8143, 0.2913, 0.2809

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.9475, 0.2586, 0.2120 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(182, 153, 255)` looks like.

```
.text, #text, p{  
    color:rgb(182, 153, 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(182, 153, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(182, 153, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 39.9475, 0.2586, 0.2120 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(182, 153, 255) }
```

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

```
.border{ border-color:rgb(182, 153, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(182, 153, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(182, 153, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(182, 153, 255);  
box-shadow:4px 4px 4px 4px rgb(182, 153,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.9475, 0.2586, 0.2120 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(182, 153, 255) }
```

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

```
.background{ background-color: rgb(182,  
153, 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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