

# Converting Colors

$Y_{xy}(48.8682, 0.2615, 0.2377)$

Have a look what the booklet for  
Yxy(48.8682, 0.2615, 0.2377)  
contains.

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# Color

**Yxy(48.8546, 0.2630, 0.2399)**

# Conversions

## Conversions Part 1

Format	Color
Hex	<a href="#">B8B1FF</a>
RGB	<a href="#">184, 177, 255</a>
RGB Percent	<a href="#">72%, 69%, 100%</a>
CMY	<a href="#">0.2780, 0.3060, 0.0000</a>
CMYK	<a href="#">0.28, 0.31, 0.00, 0.00</a>
HSL	<a href="#">245°, 100%, 85%</a>
HSV	<a href="#">245°, 31%, 100%</a>
XYZ	<a href="#">53.5588, 48.8546, 101.2323</a>
YIQ	<a href="#">187.9850, -20.8660, 25.7420</a>

# Conversions

## Conversions Part 2

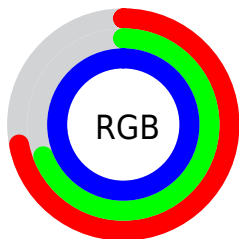
<b>Format</b>	<b>Color</b>
<b>RYB</b>	184, 177, 255
Decimal	12104191
CIELab	75.36, 19.19, -37.68
CIELCh	75, 42.287, 296.986
Yxy	48.8546, 0.2630, 0.2399
Android (android.graphics.Color)	4290294271 (0xFFB8B1FF)
YUV	187.9850, 33.0384, -3.4948
Hunter-Lab	69.8961, 14.4599, -36.9440

# Details

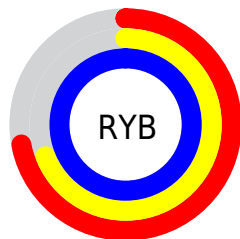
The Yxy color **48.8546, 0.2630, 0.2399** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **94.6263, 0.3542, 0.4070**, and the grayscale version is **50.1049, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.1986, 0.3045, 0.3072**, and **23.1596, 0.2493, 0.2182** is the 20% darker color. If you saturate the color by 10%, you get **37.0745, 0.2432, 0.2055**, and if you desaturate by 10%, it is **62.9864, 0.2813, 0.2722**.

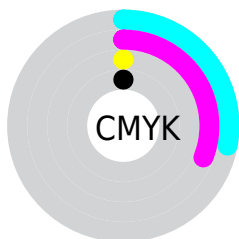
# Distribution



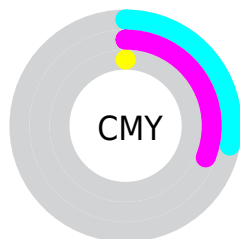
- Red (72%)
- Green (69%)
- Blue (100%)



- Red (72%)
- Yellow (69%)
- Blue (100%)



- Cyan (28%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)



- Cyan (28%)
- Magenta (31%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.8546, 0.2630, 0.2399 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 48.8546, 0.2630, 0.2399 by changing the saturation by 10% instead.



■ 48.8546, 0.2630,  
0.2399

■ 48.8546, 0.2630,  
0.2399

382.1696, 0.2876,  
0.2814

■ 34.5042, 0.2571,  
0.2305

■ 88.4755, 0.2718,  
0.2543

■ 23.2812, 0.2496,  
0.2190

114.5147, 0.2752,  
0.2599

■ 14.8013, 0.2399,  
0.2046

145.2189, 0.2780,  
0.2647

■ 8.6800, 0.2270,  
0.1861

180.9726, 0.2805,  
0.2689

■ 4.5331, 0.2090,  
0.1618

222.1601, 0.2826,  
0.2726

■ 1.9760, 0.1830,  
0.1293

269.1659, 0.2845,


■ 0.5935, 0.1440,


0.2758

0.0816

322.3742, 0.2861,  
0.2788


 0.0000, 0.0000,  
0.0000


 48.8546, 0.2630,  
0.2399

 48.8546, 0.2630,  
0.2399

 37.0745, 0.2432,  
0.2055


 62.9864, 0.2813,  
0.2722


 27.5167, 0.2226,  
0.1704

 79.5864, 0.2976,  
0.3015

 20.0417, 0.2023,  
0.1367

 98.7654, 0.3119,  
0.3275

 14.4935, 0.1839,  
0.1070

 100.0000, 0.3127,  
0.3290

 10.6939, 0.1688,  
0.0837

■ 8.4316, 0.1581,  
0.0685

■ 7.4056, 0.1523,  
0.0613

# Harmonies

## Analogous

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



48.8546, 0.2249, 0.2407



48.8546, 0.2630, 0.2399



48.8546, 0.3180, 0.2583

# Triad

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



48.8546, 0.2630, 0.2399



48.8546, 0.4280, 0.3797



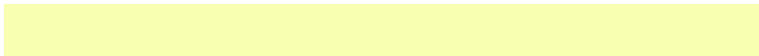
48.8546, 0.2487, 0.3677

# Complementary

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



48.8546, 0.2630, 0.2399



94.6263, 0.3542, 0.4070

# 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.



48.8546, 0.2992, 0.4178



48.8546, 0.2630, 0.2399



48.8546, 0.4039, 0.4178

# Square

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



48.8546, 0.2630, 0.2399



48.8546, 0.4185, 0.3347



48.8546, 0.3561, 0.4352



48.8546, 0.2169, 0.3086



# Rectangle

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



48.8546, 0.2630, 0.2399



48.8546, 0.3579, 0.2794



48.8546, 0.3561, 0.4352



48.8546, 0.2639, 0.3868

# Sweetspot

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



48.8551, 0.2630, 0.2399



82.4786, 0.3000, 0.3059



84.0048, 0.2678, 0.3218



17.0902, 0.2978, 0.3019



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.



48.8551, 0.2630, 0.2399



41.0523, 0.2505, 0.2181



54.2594, 0.2911, 0.2466



17.4571, 0.2993, 0.3045



3.8961, 0.1529, 0.0616



0.4049, 0.1590, 0.0649



# Inverse Universe

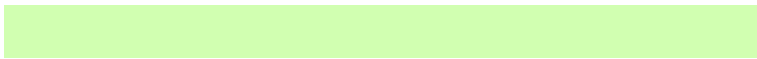
The Inverse Universe completely reimagines the original color for something new.



59.4621, 0.3217, 0.2589



53.3049, 0.3240, 0.2445



88.3190, 0.3286, 0.4139



18.2701, 0.3152, 0.3077



14.1562, 0.3454, 0.1676

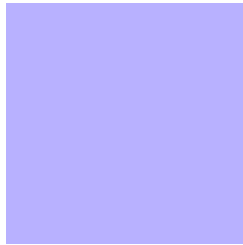


1.3864, 0.3422, 0.1659



# Previews

## White Background



This preview shows how the Yxy color 48.8546, 0.2630, 0.2399 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

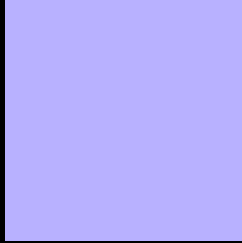
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.8546, 0.2630, 0.2399 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

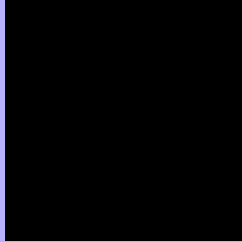
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.8546, 0.2630, 0.2399**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.8546, 0.2630, 0.2399.

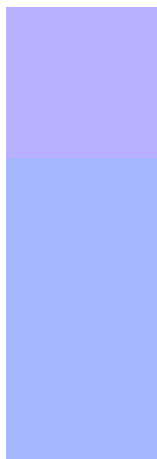


This preview shows how white text looks on a background with the Yxy color 48.8546, 0.2630, 0.2399.

# 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

48.8546, 0.2630, 0.2399

### Protanopia

48.9795, 0.2506, 0.2441

### Deuteranopia

49.0221, 0.2518, 0.2452



## Tritanopia

48.8036, 0.2912, 0.3097

# Trichromacy



## Original Color

48.8546, 0.2630, 0.2399

## Protanomaly

48.9257, 0.2548, 0.2426

## Deuteranomaly

48.9742, 0.2560, 0.2438

## Tritanomaly

48.5524, 0.2809, 0.2821

# Monochromacy



## Original Color

48.8546, 0.2630, 0.2399

## Achromatopsia

50.2886, 0.3127, 0.3290

## Achromatomaly

49.5992, 0.2941, 0.2946

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.8546, 0.2630, 0.2399 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(184, 177, 255)` looks like.

```
.text, #text, p{  
    color:rgb(184, 177, 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(184, 177, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 177, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 48.8546, 0.2630, 0.2399 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(184, 177, 255) }
```

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

```
.border{ border-color:rgb(184, 177, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(184, 177, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 177, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(184, 177, 255);  
box-shadow:4px 4px 4px 4px rgb(184, 177,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.8546, 0.2630, 0.2399 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 177, 255) }
```

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

```
.background{ background-color: rgb(184,  
177, 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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