

# Converting Colors

$Y_{xy}(48.7869, 0.3063, 0.2319)$

Have a look what the booklet for  
Yxy(48.7869, 0.3063, 0.2319)  
contains.

<b>Yxy(48.9191, 0.3063, 0.2321)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(48.9191, 0.3063, 0.2321)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EE9CFB
RGB	238, 156, 251
RGB Percent	93%, 61%, 98%
CMY	0.0667, 0.3882, 0.0158
CMYK	0.05, 0.38, 0.00, 0.02
HSL	292°, 92%, 80%
HSV	292°, 38%, 98%
XYZ	64.5580, 48.9191, 97.2902
YIQ	191.3480, 18.3770, 46.9290

# Conversions

## Conversions Part 2

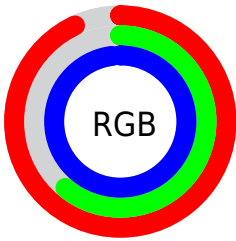
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	238, 156, 251
Decimal	15637755
CIE Lab	75.40, 45.55, -35.05
CIE LCh	75, 57.469, 322.423
Yxy	48.9191, 0.3063, 0.2321
Android (android.graphics.Color)	4293827835 (0xFFEE9CFB)
YUV	191.3480, 29.4084, 40.9138
Hunter-Lab	69.9422, 42.3602, -33.5134

# Details

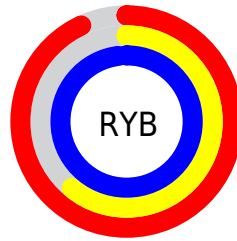
The Yxy color **48.9191, 0.3063, 0.2321** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **79.8172, 0.3149, 0.4421**, and the grayscale version is **52.1323, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.5670, 0.3147, 0.2871**, and **23.4193, 0.3035, 0.2113** is the 20% darker color. If you saturate the color by 10%, you get **40.7617, 0.3037, 0.2076**, and if you desaturate by 10%, it is **58.8321, 0.3085, 0.2579**.

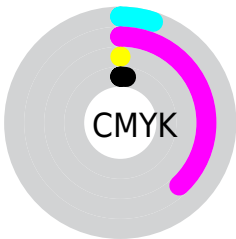
# Distribution



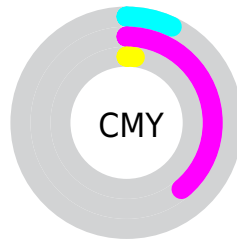
- Red (93%)
- Green (61%)
- Blue (98%)



- Red (93%)
- Yellow (61%)
- Blue (98%)



- Cyan (5%)
- Magenta (38%)
- Yellow (0%)
- Black (2%)




- Cyan (7%)
- Magenta (39%)
- Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.9191, 0.3063, 0.2321 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 48.9191, 0.3063, 0.2321 by changing the saturation by 10% instead.





 48.9191, 0.3063,  
0.2321


 48.9191, 0.3063,  
0.2321


382.4237, 0.3108,  
0.2760

 34.5553, 0.3049,  
0.2224

 88.5713, 0.3082,  
0.2471

 23.3205, 0.3029,  
0.2107


 114.6285, 0.3088,  
0.2530

 14.8304, 0.3002,  
0.1961


145.3522, 0.3093,  
0.2581

 8.7004, 0.2961,  
0.1778

181.1270, 0.3098,  
0.2625

 4.5463, 0.2897,  
0.1541

222.3371, 0.3101,  
0.2665

 1.9836, 0.2789,  
0.1229

269.3670, 0.3104,

 0.5979, 0.2598,

0.2700

0.0781

322.6011, 0.3106,  
0.2731

0.0000, 0.2199,  
0.0000

0.0000, 0.0000,  
0.0000

48.9191, 0.3063,  
0.2321

48.9191, 0.3063,  
0.2321

40.7617, 0.3037,  
0.2076

58.8321, 0.3085,  
0.2579

34.2456, 0.3007,  
0.1854

70.5932, 0.3104,  
0.2840

29.2529, 0.2974,  
0.1666

84.2958, 0.3118,  
0.3097

25.6470, 0.2939,  
0.1519

99.1274, 0.3130,  
0.3329

■ 23.2672, 0.2903,  
0.1417

■ 99.7438, 0.3150,  
0.3328

■ 21.8973, 0.2867,  
0.1359

■ 21.6660, 0.2860,  
0.1349

# Harmonies

## Analogous

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



48.9191, 0.2368, 0.2118



48.9191, 0.3063, 0.2321



48.9191, 0.3874, 0.2718

# Triad

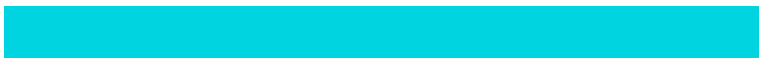
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.9191, 0.3063, 0.2321



48.9191, 0.4395, 0.4367



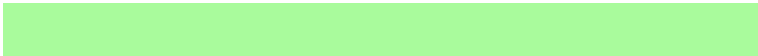
48.9191, 0.1909, 0.3101

# Complementary

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



48.9191, 0.3063, 0.2321



79.8172, 0.3149, 0.4421

# 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.



48.9191, 0.2348, 0.3946



48.9191, 0.3063, 0.2321



48.9191, 0.3780, 0.4722

# Square

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



48.9191, 0.3063, 0.2321



48.9191, 0.4687, 0.3819



48.9191, 0.3031, 0.4609



48.9191, 0.1774, 0.2469



# Rectangle

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



48.9191, 0.3063, 0.2321



48.9191, 0.4335, 0.3059



48.9191, 0.3031, 0.4609



48.9191, 0.2021, 0.3373

# Sweetspot

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



48.9212, 0.3063, 0.2321



82.6709, 0.3114, 0.3016



42.8780, 0.2455, 0.2311



17.2755, 0.3112, 0.2982



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.



48.9212, 0.3063, 0.2321



44.4550, 0.3045, 0.2143



49.3343, 0.3458, 0.2654



17.3972, 0.3116, 0.3055



11.4379, 0.2866, 0.1352



1.0915, 0.2909, 0.1376



# Inverse Universe

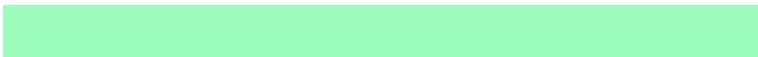
The Inverse Universe completely reimagines the original color for something new.



47.1501, 0.3935, 0.3154



42.4874, 0.4172, 0.3129



79.7364, 0.2903, 0.4031



17.2638, 0.3272, 0.3258



10.8541, 0.6223, 0.3202



1.0168, 0.5951, 0.3052



# Previews

## White Background



This preview shows how the Yxy color 48.9191, 0.3063, 0.2321 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

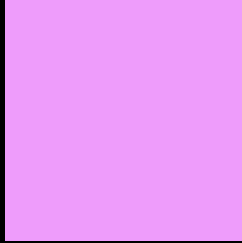
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.9191, 0.3063, 0.2321 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

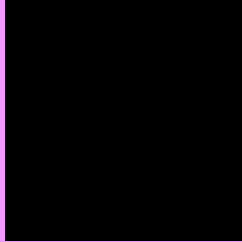
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.9191, 0.3063, 0.2321**

## Background



This preview shows how black text looks on a background with the Yxy color 48.9191, 0.3063, 0.2321.



This preview shows how white text looks on a background with the Yxy color 48.9191, 0.3063, 0.2321.

# 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

48.9191, 0.3063, 0.2321

### Protanopia

49.3935, 0.2508, 0.2453

### Deuteranopia

49.1787, 0.2602, 0.2541



## Tritanopia

48.8264, 0.3555, 0.3142

# Trichromacy



## Original Color

48.9191, 0.3063, 0.2321



## Protanomaly

48.5042, 0.2682, 0.2386



## Deuteranomaly

48.2666, 0.2748, 0.2439



## Tritanomaly

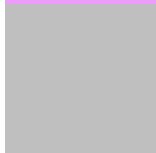
48.6201, 0.3365, 0.2815

# Monochromacy



## Original Color

48.9191, 0.3063, 0.2321



## Achromatopsia

52.0996, 0.3127, 0.3290



## Achromatomaly

50.0548, 0.3104, 0.2881

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.9191, 0.3063, 0.2321 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(238, 156, 251)` looks like.

```
.text, #text, p{  
    color:rgb(238, 156, 251)  
}
```

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(238, 156, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 156, 251) }
```

## Border

The CSS property to change the border of an element to Yxy 48.9191, 0.3063, 0.2321 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(238, 156, 251) }
```

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

```
.border{ border-color:rgb(238, 156, 251) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 156, 251)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 156, 251); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 156, 251);  
box-shadow:4px 4px 4px 4px rgb(238, 156,  
251) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.9191, 0.3063, 0.2321 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 156, 251) }
```

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

```
.background{ background-color: rgb(238,  
156, 251) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor