

# Converting Colors

$Y_{xy}(49.0362, 0.2996, 0.2582)$

Have a look what the booklet for  
Yxy(49.0362, 0.2996, 0.2582)  
contains.

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# Color

**Yxy(48.9861, 0.2994, 0.2575)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D6AAEA
RGB	214, 170, 234
RGB Percent	84%, 67%, 92%
CMY	0.1608, 0.3333, 0.0824
CMYK	0.09, 0.27, 0.00, 0.08
HSL	281°, 60%, 79%
HSV	281°, 27%, 92%
XYZ	56.9570, 48.9861, 84.2941
YIQ	190.4520, 5.6800, 29.2320

# Conversions

## Conversions Part 2

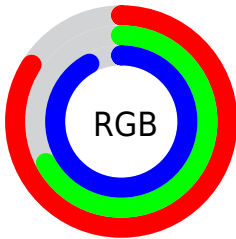
Format	Color
R <sub>Y</sub> B	214, 170, 234
Decimal	14068458
CIE Lab	75.44, 27.39, -25.98
CIE LCh	75, 37.755, 316.511
Yxy	48.9861, 0.2994, 0.2575
Android (android.graphics.Color)	4292258538 (0xFFD6AAEA)
YUV	190.4520, 21.4692, 20.6516
Hunter-Lab	69.9901, 22.7784, -22.4142

# Details

The Yxy color  $48.9861, 0.2994, 0.2575$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $72.6957, 0.3224, 0.4047$ , and the grayscale version is  $51.6392, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $82.8727, 0.3140, 0.3009$ , and  $23.3079, 0.2955, 0.2400$  is the 20% darker color. If you saturate the color by 10%, you get  $39.9059, 0.2930, 0.2298$ , and if you desaturate by 10%, it is  $59.6813, 0.3050, 0.2847$ .

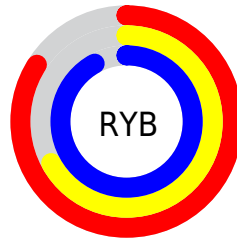
# Distribution



Red (84%)

Green (67%)

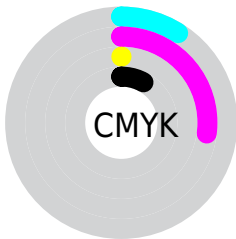
Blue (92%)



Red (84%)

Yellow (67%)

Blue (92%)

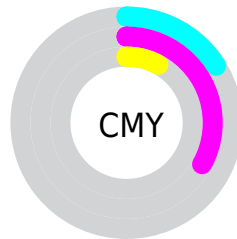


Cyan (9%)

Magenta (27%)

Yellow (0%)

Black (8%)



Cyan (16%)

Magenta (33%)


Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.9861, 0.2994, 0.2575 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 48.9861, 0.2994, 0.2575 by changing the saturation by 10% instead.





 48.9861, 0.2994,  
0.2575

 48.9861, 0.2994,  
0.2575


382.6876, 0.3066,  
0.2909

 34.6085, 0.2975,  
0.2498


 88.6708, 0.3021,  
0.2691

 23.3614, 0.2950,  
0.2403

114.7467, 0.3031,  
0.2737

 14.8606, 0.2916,  
0.2283


145.4907, 0.3039,  
0.2775

 8.7216, 0.2867,  
0.2127

181.2873, 0.3046,  
0.2809

 4.5600, 0.2794,  
0.1916

222.5209, 0.3052,  
0.2839

 1.9915, 0.2673,  
0.1619

269.5759, 0.3058,

 0.6025, 0.2465,

0.2865

0.1136

322.8367, 0.3062,  
0.2888

0.0000, 0.1270,  
0.0000

0.0000, 0.0000,  
0.0000

48.9861, 0.2994,  
0.2575

48.9861, 0.2994,  
0.2575

39.9059, 0.2930,  
0.2298

59.6813, 0.3050,  
0.2847

32.3509, 0.2857,  
0.2026

72.0625, 0.3097,  
0.3108

26.2321, 0.2778,  
0.1771

86.2041, 0.3137,  
0.3353

21.4485, 0.2694,  
0.1545

96.5600, 0.3175,  
0.3498

■ 17.8856, 0.2608,  
0.1358

■ 97.8890, 0.3222,  
0.3495

■ 15.4089, 0.2523,  
0.1219

■ 98.7205, 0.3250,  
0.3493

■ 13.8417, 0.2443,  
0.1128

■ 13.5041, 0.2422,  
0.1108

# Harmonies

## Analogous

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



48.9861, 0.2541, 0.2466



48.9861, 0.2994, 0.2575



48.9861, 0.3524, 0.2838

# Triad

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



48.9861, 0.2994, 0.2575



48.9861, 0.4051, 0.3989



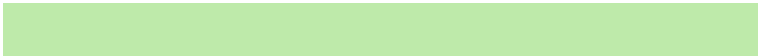
48.9861, 0.2343, 0.3291

# Complementary

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



48.9861, 0.2994, 0.2575



72.6957, 0.3224, 0.4047

# 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.



48.9861, 0.2700, 0.3809



48.9861, 0.2994, 0.2575



48.9861, 0.3687, 0.4214

# Square

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



48.9861, 0.2994, 0.2575



48.9861, 0.4163, 0.3616



48.9861, 0.3191, 0.4166



48.9861, 0.2191, 0.2829



# Rectangle

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



48.9861, 0.2994, 0.2575



48.9861, 0.3840, 0.3076



48.9861, 0.3191, 0.4166



48.9861, 0.2441, 0.3467

# Sweetspot

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



48.9882, 0.2994, 0.2575



86.4787, 0.3094, 0.3091



51.4313, 0.2676, 0.2758



17.9990, 0.3088, 0.3052



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.



48.9882, 0.2994, 0.2575



52.8981, 0.2958, 0.2414



51.5321, 0.3254, 0.2726



15.0640, 0.3088, 0.3054



7.6583, 0.2434, 0.1114



0.6520, 0.2544, 0.1175



# Inverse Universe

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



49.9618, 0.3536, 0.3067



54.3672, 0.3656, 0.3018



70.7586, 0.3022, 0.3929



15.1316, 0.3244, 0.3217



10.1210, 0.5714, 0.2921



0.8115, 0.5321, 0.2705



# Previews

## White Background



This preview shows how the Yxy color 48.9861, 0.2994, 0.2575 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

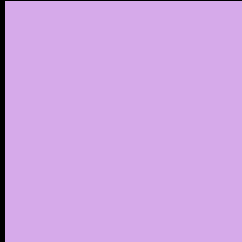
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.9861, 0.2994, 0.2575 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 48.9861, 0.2994, 0.2575**

## Background



This preview shows how black text looks on a background with the Yxy color 48.9861, 0.2994, 0.2575.



This preview shows how white text looks on a background with the Yxy color 48.9861, 0.2994, 0.2575.

# 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

48.9861, 0.2994, 0.2575

### Protanopia

49.3587, 0.2608, 0.2572

### Deuteranopia

49.1058, 0.2757, 0.2689



## Tritanopia

49.0565, 0.3274, 0.3122

# Trichromacy



## Original Color

48.9861, 0.2994, 0.2575

## Protanomaly

48.9706, 0.2739, 0.2575

## Deuteranomaly

49.0614, 0.2837, 0.2645

## Tritanomaly

48.8666, 0.3171, 0.2914

# Monochromacy



## Original Color

48.9861, 0.2994, 0.2575

## Achromatopsia

51.4918, 0.3127, 0.3290

## Achromatomaly

50.4653, 0.3082, 0.3013

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.9861, 0.2994, 0.2575 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(214, 170, 234)` looks like.

```
.text, #text, p{  
    color:rgb(214, 170, 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(214, 170, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 170, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 48.9861, 0.2994, 0.2575 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(214, 170, 234) }
```

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

```
.border{ border-color:rgb(214, 170, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(214, 170, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 170, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 170, 234);  
box-shadow:4px 4px 4px 4px rgb(214, 170,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.9861, 0.2994, 0.2575 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 170, 234) }
```

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

```
.background{ background-color: rgb(214,  
170, 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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