

# Converting Colors

$Y_{xy}(50.3676, 0.3060, 0.2592)$

Have a look what the booklet for  
Yxy(50.3676, 0.3060, 0.2592)  
contains.

<b>Yxy(50.2196, 0.3060, 0.2589)</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(50.2196, 0.3060, 0.2589)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEAAEA
RGB	222, 170, 234
RGB Percent	87%, 67%, 92%
CMY	0.1293, 0.3334, 0.0824
CMYK	0.05, 0.27, 0.00, 0.08
HSL	289°, 60%, 79%
HSV	289°, 27%, 92%
XYZ	59.3557, 50.2196, 84.3976
YIQ	192.8440, 10.4480, 30.9280

# Conversions

## Conversions Part 2

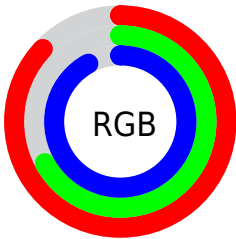
Format	Color
R <sub>YB</sub>	222, 170, 234
Decimal	14592746
CIE Lab	76.20, 29.95, -24.75
CIE LCh	76, 38.849, 320.431
Yxy	50.2196, 0.3060, 0.2589
Android (android.graphics.Color)	4292782826 (0xFFDEAAEA)
YUV	192.8440, 20.2899, 25.5698
Hunter-Lab	70.8658, 25.4928, -21.0054

# Details

The Yxy color  $50.2196, 0.3060, 0.2589$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $71.6804, 0.3169, 0.4060$ , and the grayscale version is  $53.1084, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $82.8727, 0.3140, 0.3009$ , and  $24.0439, 0.3032, 0.2420$  is the 20% darker color. If you saturate the color by 10%, you get  $41.5347, 0.3026, 0.2326$ , and if you desaturate by 10%, it is  $60.4879, 0.3089, 0.2853$ .

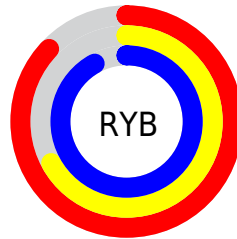
# Distribution



Red (87%)

Green (67%)

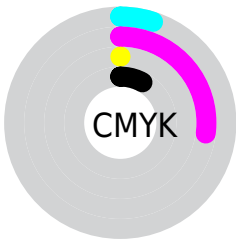
Blue (92%)



Red (87%)

Yellow (67%)

Blue (92%)

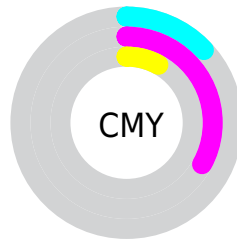


Cyan (5%)

Magenta (27%)

Yellow (0%)

Black (8%)



Cyan (13%)

Magenta (33%)


Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.2196, 0.3060, 0.2589 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 50.2196, 0.3060, 0.2589 by changing the saturation by 10% instead.





 50.2196, 0.3060,  
0.2589

 50.2196, 0.3060,  
0.2589


387.5241, 0.3100,  
0.2915

 35.5879, 0.3049,  
0.2514


 90.5002, 0.3076,  
0.2702

 24.1161, 0.3033,  
0.2423


116.9178, 0.3081,  
0.2746

 15.4198, 0.3012,  
0.2306


148.0329, 0.3086,  
0.2784

 9.1145, 0.2980,  
0.2156

184.2299, 0.3090,  
0.2817

 4.8160, 0.2931,  
0.1952

225.8931, 0.3093,  
0.2846

 2.1397, 0.2848,  
0.1667

273.4069, 0.3096,

 0.6868, 0.2692,

0.2872

0.1226

327.1558, 0.3098,  
0.2895

0.0000, 0.2024,  
0.0000

0.0000, 0.0000,  
0.0000

50.2196, 0.3060,  
0.2589

50.2196, 0.3060,  
0.2589

41.5347, 0.3026,  
0.2326

60.4879, 0.3089,  
0.2853

34.3439, 0.2987,  
0.2073

72.4099, 0.3113,  
0.3109

28.5586, 0.2943,  
0.1841

86.0597, 0.3132,  
0.3353

24.0784, 0.2895,  
0.1640

95.9011, 0.3152,  
0.3499

■ 20.7893, 0.2846,  
0.1479

■ 96.6735, 0.3179,  
0.3497

■ 18.5575, 0.2796,  
0.1365

■ 97.4644, 0.3207,  
0.3496

■ 17.2066, 0.2746,  
0.1294

■ 98.2740, 0.3235,  
0.3494

■ 16.9219, 0.2733,  
0.1279

■ 98.7199, 0.3250,  
0.3493

# Harmonies

## Analogous

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



50.2196, 0.2581, 0.2456



50.2196, 0.3060, 0.2589



50.2196, 0.3600, 0.2874

# Triad

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



50.2196, 0.3060, 0.2589



50.2196, 0.4033, 0.4043



50.2196, 0.2295, 0.3221

# Complementary

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



50.2196, 0.3060, 0.2589



71.6804, 0.3169, 0.4060

# 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.



50.2196, 0.2634, 0.3756



50.2196, 0.3060, 0.2589



50.2196, 0.3636, 0.4245

# Square

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



50.2196, 0.3060, 0.2589



50.2196, 0.4186, 0.3675



50.2196, 0.3122, 0.4155



50.2196, 0.2170, 0.2769



# Rectangle

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



50.2196, 0.3060, 0.2589



50.2196, 0.3909, 0.3123



50.2196, 0.3122, 0.4155



50.2196, 0.2386, 0.3399

# Sweetspot

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



50.2218, 0.3060, 0.2589



86.9521, 0.3111, 0.3092



48.2669, 0.2667, 0.2664



18.1187, 0.3108, 0.3054



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.



50.2218, 0.3060, 0.2589



54.6883, 0.3041, 0.2436



51.1333, 0.3317, 0.2802



15.1633, 0.3108, 0.3056



9.5619, 0.2741, 0.1284



0.7876, 0.2809, 0.1321



# Inverse Universe

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



49.6131, 0.3610, 0.3157



53.8987, 0.3754, 0.3127



71.0671, 0.2979, 0.3835



15.1000, 0.3263, 0.3246



9.9443, 0.6106, 0.3137



0.7938, 0.5739, 0.2935



# Previews

## White Background



This preview shows how the Yxy color 50.2196, 0.3060, 0.2589 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

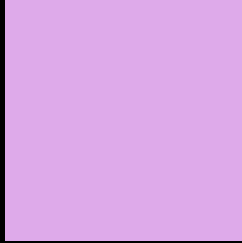
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.2196, 0.3060, 0.2589 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

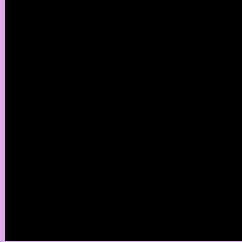
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 50.2196, 0.3060, 0.2589**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.2196, 0.3060, 0.2589.



This preview shows how white text looks on a background with the Yxy color 50.2196, 0.3060, 0.2589.

# 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

50.2196, 0.3060, 0.2589

### Protanopia

50.4810, 0.2618, 0.2589

### Deuteranopia

50.3648, 0.2795, 0.2729



## Tritanopia

50.2455, 0.3344, 0.3126

# Trichromacy



## Original Color

50.2196, 0.3060, 0.2589



## Protanomaly

49.9405, 0.2763, 0.2582



## Deuteranomaly

50.0722, 0.2883, 0.2675



## Tritanomaly

50.0704, 0.3239, 0.2922

# Monochromacy



## Original Color

50.2196, 0.3060, 0.2589



## Achromatopsia

53.3276, 0.3127, 0.3290



## Achromatomaly

52.0894, 0.3107, 0.3017

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.2196, 0.3060, 0.2589 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(222, 170, 234)` looks like.

```
.text, #text, p{  
    color:rgb(222, 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(222, 170, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 170, 234) }
```

## Border

The CSS property to change the border of an element to Yxy 50.2196, 0.3060, 0.2589 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(222, 170, 234) }
```

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

```
.border{ border-color:rgb(222, 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(222, 170, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 170, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 170, 234);  
box-shadow:4px 4px 4px 4px rgb(222, 170,  
234) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.2196, 0.3060, 0.2589 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 170, 234) }
```

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

```
.background{ background-color: rgb(222,  
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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