

# Converting Colors

$Y_{xy}(55.7987, 0.2968, 0.2678)$

Have a look what the booklet for  
Yxy(55.7987, 0.2968, 0.2678)  
contains.

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# Color

**Yxy(55.8005, 0.2968, 0.2678)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D9B9F1
RGB	217, 185, 241
RGB Percent	85%, 73%, 95%
CMY	0.1490, 0.2745, 0.0549
CMYK	0.10, 0.23, 0.00, 0.05
HSL	274°, 67%, 84%
HSV	274°, 23%, 95%
XYZ	61.8431, 55.8005, 90.7227
YIQ	200.9520, 1.0960, 24.2000

# Conversions

## Conversions Part 2

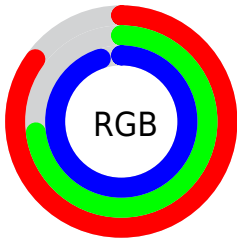
Format	Color
R <sub>YB</sub>	217, 185, 241
Decimal	14268913
CIE <sub>Lab</sub>	79.50, 21.63, -23.54
CIE <sub>LCh</sub>	80, 31.969, 312.572
Yxy	55.8005, 0.2968, 0.2678
Android (android.graphics.Color)	4292458993 (0xFFD9B9F1)
YUV	200.9520, 19.7437, 14.0741
Hunter-Lab	74.6997, 17.0537, -19.7178

# Details

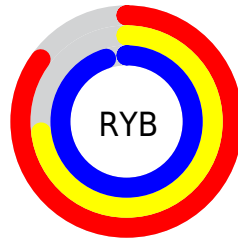
The Yxy color  $55.8005, 0.2968, 0.2678$  is a light color, and the websafe version is hex  $\text{FFCCFF}$ . A complement of this color would be  $79.9605, 0.3255, 0.3914$ , and the grayscale version is  $58.2543, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $91.3906, 0.3133, 0.3156$ , and  $27.6867, 0.2923, 0.2536$  is the 20% darker color. If you saturate the color by 10%, you get  $45.0274, 0.2881, 0.2391$ , and if you desaturate by 10%, it is  $68.3860, 0.3044, 0.2953$ .

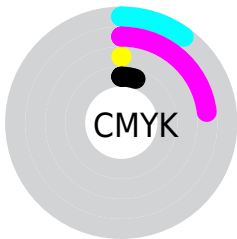
# Distribution



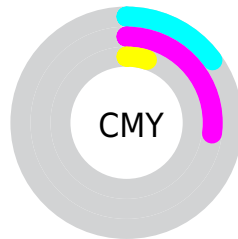
- Red (85%)
- Green (73%)
- Blue (95%)



- Red (85%)
- Yellow (73%)
- Blue (95%)



- Cyan (10%)
- Magenta (23%)
- Yellow (0%)
- Black (5%)




- Cyan (15%)
- Magenta (27%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.8005, 0.2968, 0.2678 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 55.8005, 0.2968, 0.2678 by changing the saturation by 10% instead.




 55.8005, 0.2968,  
0.2678

 55.8005, 0.2968,  
0.2678


408.9392, 0.3049,  
0.2961

 40.0430, 0.2948,  
0.2614


 98.7128, 0.2998,  
0.2776

 27.5721, 0.2922,  
0.2534


126.6364, 0.3009,  
0.2814

 18.0033, 0.2887,  
0.2434


159.3842, 0.3018,  
0.2847

 10.9524, 0.2840,  
0.2305

197.3405, 0.3026,  
0.2876

 6.0348, 0.2772,  
0.2131

240.8898, 0.3033,  
0.2901

 2.8663, 0.2664,  
0.1886

290.4164, 0.3039,

 1.0623, 0.2479,

0.2923

0.1522

346.3048, 0.3044,  
0.2943

0.0000, 0.2157,  
0.0000

0.0000, 0.0000,  
0.0000

55.8005, 0.2968,  
0.2678

55.8005, 0.2968,  
0.2678

45.0274, 0.2881,  
0.2391

68.3860, 0.3044,  
0.2953

35.9719, 0.2782,  
0.2100

82.8587, 0.3108,  
0.3211

28.5407, 0.2675,  
0.1817

97.8222, 0.3164,  
0.3426

22.6288, 0.2561,  
0.1555

99.1304, 0.3209,  
0.3425

■ 18.1184, 0.2444,  
0.1328

■ 14.8735, 0.2330,  
0.1148

■ 12.7295, 0.2223,  
0.1021

■ 11.7359, 0.2155,  
0.0961

# Harmonies

## Analogous

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



55.8005, 0.2608, 0.2610



55.8005, 0.2968, 0.2678



55.8005, 0.3396, 0.2884

# Triad

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



55.8005, 0.2968, 0.2678



55.8005, 0.3906, 0.3835



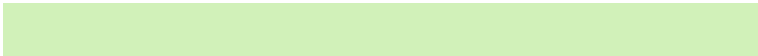
55.8005, 0.2515, 0.3352

# Complementary

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



55.8005, 0.2968, 0.2678



79.9605, 0.3255, 0.3914

# 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.



55.8005, 0.2832, 0.3754



55.8005, 0.2968, 0.2678



55.8005, 0.3637, 0.4028

# Square

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



55.8005, 0.2968, 0.2678



55.8005, 0.3959, 0.3525



55.8005, 0.3242, 0.4010



55.8005, 0.2361, 0.2965



# Rectangle

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



55.8005, 0.2968, 0.2678



55.8005, 0.3659, 0.3077



55.8005, 0.3242, 0.4010



55.8005, 0.2605, 0.3492

# Sweetspot

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



55.8029, 0.2968, 0.2678



87.7142, 0.3085, 0.3116



62.3953, 0.2754, 0.2925



18.5587, 0.3081, 0.3100



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.



55.8029, 0.2968, 0.2678



57.2502, 0.2927, 0.2540



59.5273, 0.3182, 0.2748



15.6748, 0.3069, 0.3052



6.4458, 0.2171, 0.0969



0.5948, 0.2302, 0.1042



# Inverse Universe

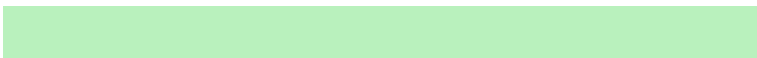
The Inverse Universe completely reimagines the original color for something new.



58.0001, 0.3406, 0.3034



60.2390, 0.3482, 0.2977



76.8826, 0.3075, 0.3900



15.8712, 0.3226, 0.3189



10.7000, 0.5261, 0.2672

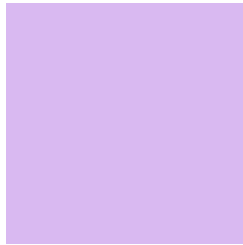


0.9097, 0.4926, 0.2487



# Previews

## White Background



This preview shows how the Yxy color 55.8005, 0.2968, 0.2678 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

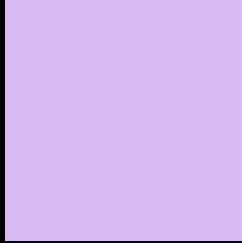
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.8005, 0.2968, 0.2678 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

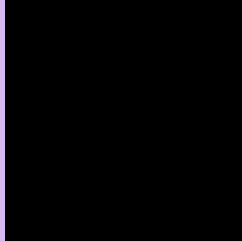
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 55.8005, 0.2968, 0.2678**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.8005, 0.2968, 0.2678.



This preview shows how white text looks on a background with the Yxy color 55.8005, 0.2968, 0.2678.

# 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

55.8005, 0.2968, 0.2678

### Protanopia

55.9979, 0.2692, 0.2681

### Deuteranopia

55.9740, 0.2821, 0.2763



## Tritanopia

55.7149, 0.3184, 0.3116

# Trichromacy



## Original Color

55.8005, 0.2968, 0.2678

## Protanomaly

55.5899, 0.2789, 0.2679

## Deuteranomaly

55.8147, 0.2871, 0.2727

## Tritanomaly

55.8058, 0.3103, 0.2949

# Monochromacy



## Original Color

55.8005, 0.2968, 0.2678

## Achromatopsia

58.4078, 0.3127, 0.3290

## Achromatomaly

57.2535, 0.3068, 0.3047

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.8005, 0.2968, 0.2678 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(217, 185, 241)` looks like.

```
.text, #text, p{  
    color:rgb(217, 185, 241)  
}
```

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(217, 185, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 185, 241) }
```

## Border

The CSS property to change the border of an element to Yxy 55.8005, 0.2968, 0.2678 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(217, 185, 241) }
```

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

```
.border{ border-color:rgb(217, 185, 241) }
```

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

Here you see how a box with a 4 pixel `rgb(217, 185, 241)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 185, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 185, 241);  
box-shadow:4px 4px 4px 4px rgb(217, 185,  
241) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.8005, 0.2968, 0.2678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 185, 241) }
```

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

```
.background{ background-color: rgb(217,  
185, 241) }
```

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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