

# Converting Colors

$Y_{xy}(45.7865, 0.3243, 0.2646)$

Have a look what the booklet for  
Yxy(45.7865, 0.3243, 0.2646)  
contains.

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# Color

**Yxy(45.9229, 0.3247, 0.2655)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E29FD8
RGB	226, 159, 216
RGB Percent	89%, 62%, 85%
CMY	0.1137, 0.3765, 0.1529
CMYK	0.00, 0.30, 0.04, 0.11
HSL	309°, 54%, 75%
HSV	309°, 30%, 89%
XYZ	56.1626, 45.9229, 70.8821
YIQ	185.5310, 21.6350, 31.9310

# Conversions

## Conversions Part 2

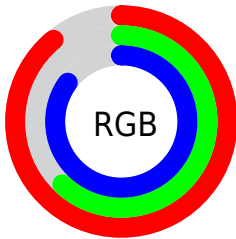
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	226, 159, 216
Decimal	14852056
CIE Lab	73.50, 33.82, -19.03
CIE LCh	73, 38.804, 330.626
Yxy	45.9229, 0.3247, 0.2655
Android (android.graphics.Color)	4293042136 (0xFFE29FD8)
YUV	185.5310, 15.0212, 35.4913
Hunter-Lab	67.7664, 29.3436, -14.5795

# Details

The Yxy color  $45.9229, 0.3247, 0.2655$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $64.6371, 0.3027, 0.4021$ , and the grayscale version is  $48.7343, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $76.5731, 0.3146, 0.2891$ , and  $21.4273, 0.3276, 0.2493$  is the 20% darker color. If you saturate the color by 10%, you get  $38.6770, 0.3297, 0.2443$ , and if you desaturate by 10%, it is  $54.5976, 0.3202, 0.2873$ .

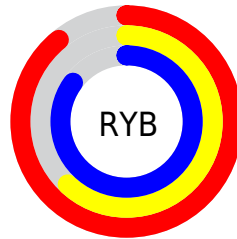
# Distribution



Red (89%)

Green (62%)

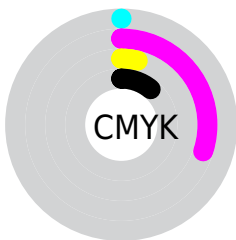
Blue (85%)



Red (89%)

Yellow (62%)

Blue (85%)

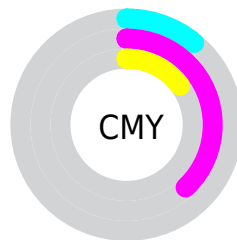


Cyan (0%)

Magenta (30%)

Yellow (4%)

Black (11%)



Cyan (11%)

Magenta (38%)


Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9229, 0.3247, 0.2655 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 45.9229, 0.3247, 0.2655 by changing the saturation by 10% instead.





 45.9229, 0.3247,  
0.2655

 45.9229, 0.3247,  
0.2655


370.4986, 0.3194,  
0.2956

 32.1850, 0.3258,  
0.2585


 84.1036, 0.3229,  
0.2761

 21.5028, 0.3271,  
0.2497


 109.3152, 0.3222,  
0.2801

 13.4920, 0.3287,  
0.2385


139.1201, 0.3216,  
0.2836

 7.7682, 0.3306,  
0.2237

173.9027, 0.3211,  
0.2867

 3.9470, 0.3328,  
0.2033

214.0475, 0.3206,  
0.2893

 1.6440, 0.3351,  
0.1738

259.9388, 0.3202,

 0.3870, 0.3440,

0.2917

0.1070

311.9611, 0.3198,  
0.2937

0.0000, 0.2051,  
0.0000

0.0000, 0.0000,  
0.0000

45.9229, 0.3247,  
0.2655

45.9229, 0.3247,  
0.2655

38.6770, 0.3297,  
0.2443

54.5976, 0.3202,  
0.2873

32.7763, 0.3351,  
0.2246

64.7666, 0.3161,  
0.3088

28.1378, 0.3408,  
0.2073

76.4988, 0.3126,  
0.3297

24.6668, 0.3466,  
0.1935

89.8571, 0.3096,  
0.3495

■ 22.2555, 0.3524,  
0.1838

■ 93.5678, 0.3074,  
0.3516

■ 20.7757, 0.3579,  
0.1786

■ 93.7623, 0.3055,  
0.3481

■ 20.0129, 0.3630,  
0.1775

■ 93.9604, 0.3037,  
0.3446

■ 19.9907, 0.3632,  
0.1775

■ 94.1623, 0.3018,  
0.3411

■ 94.3679, 0.2999,  
0.3377

# Harmonies

## Analogous

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



45.9229, 0.2717, 0.2461



45.9229, 0.3247, 0.2655



45.9229, 0.3786, 0.2988

# Triad

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



45.9229, 0.3247, 0.2655



45.9229, 0.3941, 0.4160



45.9229, 0.2203, 0.3042

# Complementary

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



45.9229, 0.3247, 0.2655



64.6371, 0.3027, 0.4021

# 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.



45.9229, 0.2479, 0.3585



45.9229, 0.3247, 0.2655



45.9229, 0.3475, 0.4282

# Square

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



45.9229, 0.3247, 0.2655



45.9229, 0.4197, 0.3822



45.9229, 0.2940, 0.4073



45.9229, 0.2155, 0.2639



# Rectangle

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



45.9229, 0.3247, 0.2655



45.9229, 0.4056, 0.3258



45.9229, 0.2940, 0.4073



45.9229, 0.2271, 0.3214

# Sweetspot

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



45.9249, 0.3247, 0.2655



86.0028, 0.3159, 0.3101



38.6037, 0.2674, 0.2442



17.9582, 0.3165, 0.3070



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.



45.9249, 0.3247, 0.2655



53.8946, 0.3280, 0.2514



44.4088, 0.3546, 0.3007



13.8986, 0.3160, 0.3093



11.4167, 0.3624, 0.1770



0.8010, 0.3550, 0.1729



# Inverse Universe

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



45.9249, 0.3247, 0.2655



53.8946, 0.3280, 0.2514



66.0107, 0.2837, 0.3595



13.8986, 0.3160, 0.3093



11.4167, 0.3624, 0.1770



0.8010, 0.3550, 0.1729



# Previews

## White Background



This preview shows how the Yxy color 45.9229, 0.3247, 0.2655 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

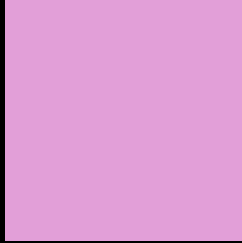
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.9229, 0.3247, 0.2655 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

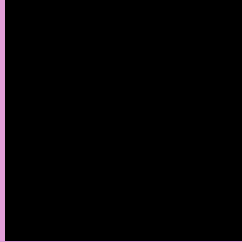
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.9229, 0.3247, 0.2655**

## Background



This preview shows how black text looks on a background with the Yxy color 45.9229, 0.3247, 0.2655.



This preview shows how white text looks on a background with the Yxy color 45.9229, 0.3247, 0.2655.

# 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

45.9229, 0.3247, 0.2655

### Protanopia

46.2782, 0.2673, 0.2657

### Deuteranopia

46.3157, 0.2900, 0.2842



## Tritanopia

45.8993, 0.3527, 0.3138

# Trichromacy



## Original Color

45.9229, 0.3247, 0.2655



## Protanomaly

45.7601, 0.2859, 0.2652



## Deuteranomaly

45.7466, 0.3023, 0.2762



## Tritanomaly

45.6881, 0.3430, 0.2955

# Monochromacy



## Original Color

45.9229, 0.3247, 0.2655



## Achromatopsia

49.1021, 0.3127, 0.3290



## Achromatomaly

47.4994, 0.3174, 0.3034

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.9229, 0.3247, 0.2655 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(226, 159, 216)` looks like.

```
.text, #text, p{  
    color:rgb(226, 159, 216)  
}
```

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(226, 159, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 159, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 45.9229, 0.3247, 0.2655 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(226, 159, 216) }
```

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

```
.border{ border-color:rgb(226, 159, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 159, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 159, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 159, 216);  
box-shadow:4px 4px 4px 4px rgb(226, 159,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.9229, 0.3247, 0.2655 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 159, 216) }
```

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

```
.background{ background-color: rgb(226,  
159, 216) }
```

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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