

# Converting Colors

$Y_{xy}(73.0447, 0.2233, 0.1557)$

Have a look what the booklet for  
Yxy(73.0447, 0.2233, 0.1557)  
contains.

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# **Color**

**Yxy(58.5794, 0.2999, 0.2549)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EAB7FF
RGB	234, 183, 255
RGB Percent	92%, 72%, 100%
CMY	0.0823, 0.2824, 0.0000
CMYK	0.08, 0.28, 0.00, 0.00
HSL	283°, 100%, 86%
HSV	283°, 28%, 100%
XYZ	68.9210, 58.5794, 102.3129
YIQ	206.4570, 7.2840, 33.2040

# Conversions

## Conversions Part 2

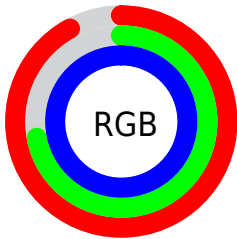
Format	Color
<a href="#">RYB</a>	<a href="#">234, 183, 255</a>
Decimal	<a href="#">15382527</a>
CIELab	<a href="#">81.06, 30.84, -28.55</a>
CIELCh	<a href="#">81, 42.025, 317.209</a>
Yxy	<a href="#">58.5794, 0.2999, 0.2549</a>
Android (android.graphics.Color)	<a href="#">4293572607</a> ( <a href="#">0xFFEAB7FF</a> )
YUV	<a href="#">206.4570, 23.9317, 24.1552</a>
Hunter-Lab	<a href="#">76.5372, 26.7975, -25.6813</a>

# Details

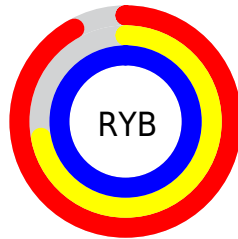
The Yxy color **58.5794, 0.2999, 0.2549** is a light color, and the websafe version is hex **FFCCFF**. A complement of this color would be **87.7748, 0.3218, 0.4081**, and the grayscale version is **61.8692, 0.3127, 0.3290**.

A 20% lighter version of the original color is **90.2130, 0.3134, 0.3136**, and **29.2427, 0.2964, 0.2381** is the 20% darker color. If you saturate the color by 10%, you get **47.7640, 0.2939, 0.2274**, and if you desaturate by 10%, it is **71.3533, 0.3052, 0.2822**.

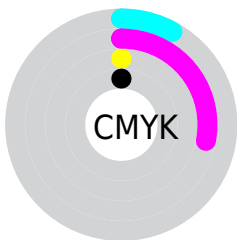
# Distribution



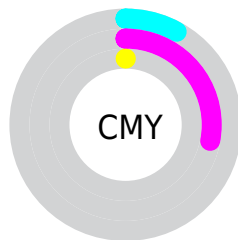
- Red (92%)
- Green (72%)
- Blue (100%)



- Red (92%)
- Yellow (72%)
- Blue (100%)



- Cyan (8%)
- Magenta (28%)
- Yellow (0%)
- Black (0%)



- Cyan (8%)
- Magenta (28%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.5794, 0.2999, 0.2549 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 58.5794, 0.2999, 0.2549 by changing the saturation by 10% instead.





 58.5794, 0.2999,  
0.2549

 58.5794, 0.2999,  
0.2549


419.3415, 0.3067,  
0.2883

 42.2746, 0.2981,  
0.2475


 102.7661, 0.3024,  
0.2663

 29.3164, 0.2959,  
0.2385


131.4169, 0.3034,  
0.2708

 19.3203, 0.2928,  
0.2273


164.9517, 0.3042,  
0.2747

 11.9019, 0.2887,  
0.2131

203.7551, 0.3048,  
0.2781

 6.6769, 0.2826,  
0.1944

248.2113, 0.3054,  
0.2811

 3.2609, 0.2730,  
0.1692

298.7049, 0.3059,

 1.2694, 0.2568,

0.2838

0.1337

355.6201, 0.3063,  
0.2862

0.1173, 0.2380,  
0.0323

0.0000, 0.0000,  
0.0000

58.5794, 0.2999,  
0.2549

58.5794, 0.2999,  
0.2549

47.7640, 0.2939,  
0.2274

71.3533, 0.3052,  
0.2822

38.8032, 0.2871,  
0.2005

86.1812, 0.3096,  
0.3085

31.5837, 0.2796,  
0.1755

100.0000, 0.3127,  
0.3290

25.9797, 0.2718,  
0.1536

■ 21.8476, 0.2637,  
0.1358

■ 19.0182, 0.2558,  
0.1228

■ 17.2582, 0.2482,  
0.1146

■ 17.0017, 0.2469,  
0.1134

# Harmonies

## Analogous

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



58.5794, 0.2523, 0.2431



58.5794, 0.2999, 0.2549



58.5794, 0.3555, 0.2826

# Triad

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



58.5794, 0.2999, 0.2549



58.5794, 0.4087, 0.4026



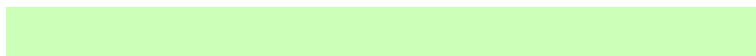
58.5794, 0.2301, 0.3276

# Complementary

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



58.5794, 0.2999, 0.2549



87.7748, 0.3218, 0.4081

# 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.



58.5794, 0.2668, 0.3824



58.5794, 0.2999, 0.2549



58.5794, 0.3700, 0.4262

# Square

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



58.5794, 0.2999, 0.2549



58.5794, 0.4214, 0.3637



58.5794, 0.3178, 0.4208



58.5794, 0.2149, 0.2795



# Rectangle

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



58.5794, 0.2999, 0.2549



58.5794, 0.3885, 0.3074



58.5794, 0.3178, 0.4208



58.5794, 0.2401, 0.3462

# Sweetspot

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



58.5795, 0.2999, 0.2549



86.5572, 0.3097, 0.3091



60.7576, 0.2656, 0.2721



18.0188, 0.3091, 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.



58.5795, 0.2999, 0.2549



52.1131, 0.2965, 0.2390



61.4529, 0.3269, 0.2715



18.0188, 0.3091, 0.3052



8.9641, 0.2481, 0.1140



0.9289, 0.2566, 0.1187



# Inverse Universe

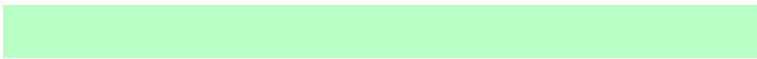
The Inverse Universe completely reimagines the original color for something new.



59.4851, 0.3569, 0.3074



53.2523, 0.3695, 0.3028



85.6365, 0.3012, 0.3943



18.0742, 0.3248, 0.3221



11.3920, 0.5798, 0.2968



1.1272, 0.5478, 0.2791



# Previews

## White Background



This preview shows how the Yxy color 58.5794, 0.2999, 0.2549 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

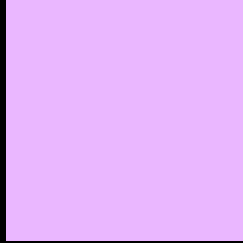
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 58.5794, 0.2999, 0.2549 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

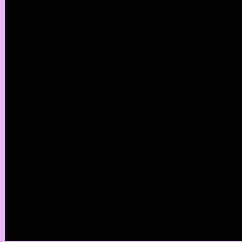
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 58.5794, 0.2999, 0.2549**

## Background



This preview shows how black text looks on a background with the Yxy color 58.5794, 0.2999, 0.2549.

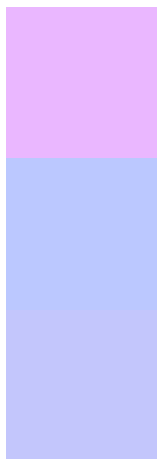


This preview shows how white text looks on a background with the Yxy color 58.5794, 0.2999, 0.2549.

# 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

58.5794, 0.2999, 0.2549

### Protanopia

59.0933, 0.2676, 0.2672

### Deuteranopia

59.0185, 0.2745, 0.2688



## Tritanopia

58.5352, 0.3297, 0.3124

# Trichromacy



## Original Color

58.5794, 0.2999, 0.2549



## Protanomaly

58.6409, 0.2785, 0.2623



## Deuteranomaly

58.7871, 0.2831, 0.2638



## Tritanomaly

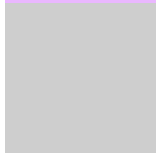
58.6000, 0.3193, 0.2911

# Monochromacy



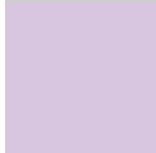
## Original Color

58.5794, 0.2999, 0.2549



## Achromatopsia

61.7207, 0.3127, 0.3290



## Achromatomaly

60.3689, 0.3079, 0.3000

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.5794, 0.2999, 0.2549 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(234, 183, 255)` looks like.

```
.text, #text, p{  
    color:rgb(234, 183, 255)  
}
```

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(234, 183, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 183, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 58.5794, 0.2999, 0.2549 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(234, 183, 255) }
```

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

```
.border{ border-color:rgb(234, 183, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 183, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 183, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 183, 255);  
box-shadow:4px 4px 4px 4px rgb(234, 183,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.5794, 0.2999, 0.2549 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 183, 255) }
```

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

```
.background{ background-color: rgb(234,  
183, 255) }
```

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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