

# Converting Colors

$Y_{xy}(77.1752, 0.2648, 0.2321)$

Have a look what the booklet for  
Yxy(77.1752, 0.2648, 0.2321)  
contains.

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# Color

**Yxy(72.4707, 0.3006, 0.2863)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EBD5FF
RGB	235, 213, 255
RGB Percent	92%, 84%, 100%
CMY	0.0786, 0.1646, 0.0001
CMYK	0.08, 0.16, 0.00, 0.00
HSL	271°, 100%, 92%
HSV	271°, 16%, 100%
XYZ	76.0904, 72.4707, 104.5674
YIQ	224.3660, -0.3700, 17.7260

# Conversions

## Conversions Part 2

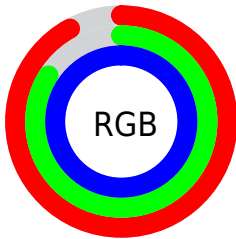
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	235, 213, 255
Decimal	15455743
CIE Lab	88.19, 15.15, -17.68
CIE LCh	88, 23.281, 310.602
Yxy	72.4707, 0.3006, 0.2863
Android (android.graphics.Color)	4293645823 (0xFFEBD5FF)
YUV	224.3660, 15.1026, 9.3260
Hunter-Lab	85.1297, 10.5694, -13.2369

# Details

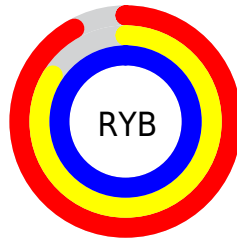
The Yxy color  $72.4707, 0.3006, 0.2863$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $93.6447, 0.3232, 0.3719$ , and the grayscale version is  $74.7045, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $38.1146, 0.2977, 0.2767$  is the 20% darker color. If you saturate the color by 10%, you get  $58.6366, 0.2916, 0.2579$ , and if you desaturate by 10%, it is  $88.4693, 0.3083, 0.3129$ .

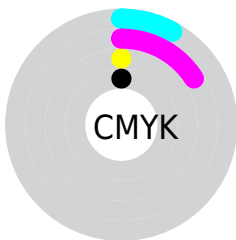
# Distribution



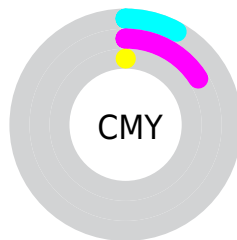
- Red (92%)
- Green (84%)
- Blue (100%)



- Red (92%)
- Yellow (84%)
- Blue (100%)



- Cyan (8%)
- Magenta (16%)
- Yellow (0%)
- Black (0%)



- Cyan (8%)
- Magenta (16%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.4707, 0.3006, 0.2863 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 72.4707, 0.3006, 0.2863 by changing the saturation by 10% instead.



72.4707, 0.3006,  
0.2863

72.4707, 0.3006,  
0.2863

469.1783, 0.3064,  
0.3055

53.5433, 0.2992,  
0.2821

122.7255, 0.3026,  
0.2928

38.2366, 0.2975,  
0.2769

154.8217, 0.3034,  
0.2954

26.1664, 0.2954,  
0.2705

192.0762, 0.3041,  
0.2976

16.9482, 0.2925,  
0.2622

234.8735, 0.3047,  
0.2996

10.1975, 0.2885,  
0.2513

283.5980, 0.3052,  
0.3013

5.5301, 0.2826,  
0.2363

338.6340, 0.3056,

2.5615, 0.2732,

0.3029

0.2143

400.3660, 0.3060,  
0.3042

0.9074, 0.2563,  
0.1795

0.0000, 0.1500,  
0.0000

72.4707, 0.3006,  
0.2863

72.4707, 0.3006,  
0.2863

58.6366, 0.2916,  
0.2579

88.4693, 0.3083,  
0.3129

46.8609, 0.2813,  
0.2284

99.9987, 0.3127,  
0.3290

37.0425, 0.2699,  
0.1987

29.0675, 0.2576,  
0.1700

■ 22.8101, 0.2448,  
0.1438

■ 18.1279, 0.2320,  
0.1217

■ 14.8546, 0.2197,  
0.1047

■ 12.7828, 0.2086,  
0.0934

■ 12.2271, 0.2049,  
0.0903

# Harmonies

## Analogous

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



72.4707, 0.2764, 0.2826



72.4707, 0.3006, 0.2863



72.4707, 0.3291, 0.3001

# Triad

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



72.4707, 0.3006, 0.2863



72.4707, 0.3655, 0.3654



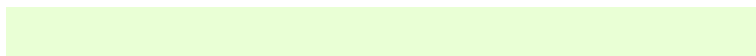
72.4707, 0.2725, 0.3355

# Complementary

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



72.4707, 0.3006, 0.2863



93.6447, 0.3232, 0.3719

# 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.



72.4707, 0.2950, 0.3608



72.4707, 0.3006, 0.2863



72.4707, 0.3489, 0.3778

# Square

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



72.4707, 0.3006, 0.2863



72.4707, 0.3676, 0.3445



72.4707, 0.3229, 0.3766



72.4707, 0.2608, 0.3095



# Rectangle

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



72.4707, 0.3006, 0.2863



72.4707, 0.3467, 0.3134



72.4707, 0.3229, 0.3766



72.4707, 0.2790, 0.3444

# Sweetspot

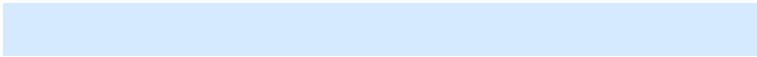
The Sweet Spot groups the original color and five complimentary colors.



72.4738, 0.3006, 0.2863



90.9971, 0.3094, 0.3166



79.8180, 0.2867, 0.3063



19.2161, 0.3089, 0.3148



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.



72.4738, 0.3006, 0.2863



67.3374, 0.2976, 0.2764



76.0308, 0.3151, 0.2888



17.8448, 0.3061, 0.3050



6.4796, 0.2066, 0.0912



0.6960, 0.2186, 0.0978



# Inverse Universe

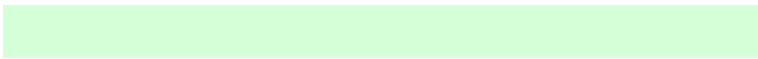
The Inverse Universe completely reimagines the original color for something new.



74.7432, 0.3298, 0.3091



70.0663, 0.3342, 0.3045



90.4979, 0.3102, 0.3728



18.1315, 0.3219, 0.3177



11.8692, 0.5061, 0.2561



1.1776, 0.4794, 0.2415



# Previews

## White Background



This preview shows how the Yxy color 72.4707, 0.3006, 0.2863 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

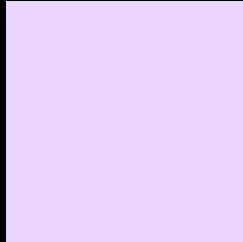
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.4707, 0.3006, 0.2863 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

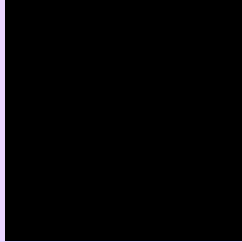
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.4707, 0.3006, 0.2863**

## Background



This preview shows how black text looks on a background with the Yxy color 72.4707, 0.3006, 0.2863.

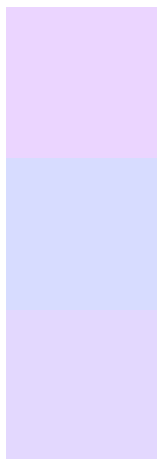


This preview shows how white text looks on a background with the Yxy color 72.4707, 0.3006, 0.2863.

# 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

72.4707, 0.3006, 0.2863

### Protanopia

72.8535, 0.2873, 0.2921

### Deuteranopia

72.5984, 0.2958, 0.2897



## Tritanopia

72.7220, 0.3121, 0.3112

# Trichromacy



## Original Color

72.4707, 0.3006, 0.2863

## Protanomaly

72.3753, 0.2918, 0.2894

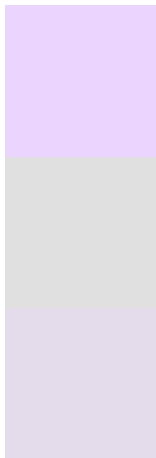
## Deuteranomaly

72.5796, 0.2978, 0.2889

## Tritanomaly

72.8462, 0.3076, 0.3020

# Monochromacy



## Original Color

72.4707, 0.3006, 0.2863

## Achromatopsia

74.5404, 0.3127, 0.3290

## Achromatomaly

73.6785, 0.3085, 0.3132

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.4707, 0.3006, 0.2863 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(235, 213, 255)` looks like.

```
.text, #text, p{  
    color:rgb(235, 213, 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(235, 213, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 213, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 72.4707, 0.3006, 0.2863 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(235, 213, 255) }
```

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

```
.border{ border-color:rgb(235, 213, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 213, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 213, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 213, 255);  
box-shadow:4px 4px 4px 4px rgb(235, 213,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.4707, 0.3006, 0.2863 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 213, 255) }
```

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

```
.background{ background-color: rgb(235,  
213, 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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