

# Converting Colors

$Yxy(80.7568, 0.3029, 0.3096)$

Have a look what the booklet for  
Yxy(80.7568, 0.3029, 0.3096)  
contains.

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# Color

**Yxy(80.7568, 0.3029, 0.3096)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E9E6F9
RGB	233, 230, 249
RGB Percent	91%, 90%, 98%
CMY	0.0862, 0.0981, 0.0234
CMYK	0.06, 0.08, 0.00, 0.02
HSL	250°, 61%, 94%
HSV	250°, 8%, 98%
XYZ	79.0092, 80.7568, 101.0764
YIQ	233.0630, -4.3110, 6.5450

# Conversions

## Conversions Part 2

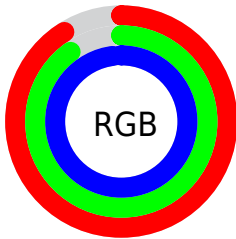
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	233, 230, 249
Decimal	15329017
CIE Lab	92.02, 4.51, -8.85
CIE LCh	92, 9.937, 296.995
Yxy	80.7568, 0.3029, 0.3096
Android (android.graphics.Color)	4293519097 (0xFFE9E6F9)
YUV	233.0630, 7.8569, -0.0553
Hunter-Lab	89.8648, -0.3261, -3.7817

# Details

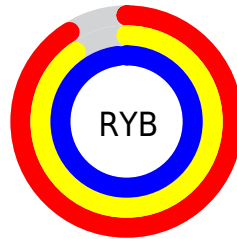
The Yxy color  $80.7568, 0.3029, 0.3096$  is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be  $93.0836, 0.3221, 0.3479$ , and the grayscale version is  $81.4829, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $43.8573, 0.3001, 0.3054$  is the 20% darker color. If you saturate the color by 10%, you get  $64.5564, 0.2884, 0.2815$ , and if you desaturate by 10%, it is  $99.3627, 0.3155, 0.3346$ .

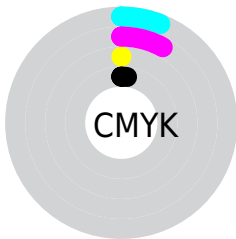
# Distribution



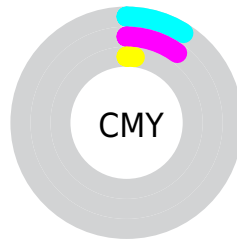
- Red (91%)
- Green (90%)
- Blue (98%)



- Red (91%)
- Yellow (90%)
- Blue (98%)



- Cyan (6%)
- Magenta (8%)
- Yellow (0%)
- Black (2%)



- Cyan (9%)
- Magenta (10%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.7568, 0.3029, 0.3096 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 80.7568, 0.3029, 0.3096 by changing the saturation by 10% instead.



80.7568, 0.3029,  
0.3096

80.7568, 0.3029,  
0.3096

497.4797, 0.3074,  
0.3183

60.3413, 0.3019,  
0.3077

134.4292, 0.3044,  
0.3126

43.6938, 0.3006,  
0.3053

168.4550, 0.3050,  
0.3138

30.4299, 0.2991,  
0.3023

207.7863, 0.3056,  
0.3148

20.1651, 0.2971,  
0.2985

252.8075, 0.3060,  
0.3157

12.5151, 0.2943,  
0.2935

303.9030, 0.3064,  
0.3164

7.0955, 0.2905,  
0.2865

361.4573, 0.3068,

3.5219, 0.2846,

0.3171

0.2760

425.8547, 0.3071,  
0.3178

■ 1.4099, 0.2745,  
0.2587

■ 0.2240, 0.2291,  
0.1589

■ 80.7568, 0.3029,  
0.3096

■ 80.7568, 0.3029,  
0.3096

■ 64.5564, 0.2884,  
0.2815

■ 99.3627, 0.3155,  
0.3346

■ 50.6530, 0.2720,  
0.2505

■ 99.6220, 0.3162,  
0.3347

■ 38.9451, 0.2538,  
0.2173

■ 29.3197, 0.2345,  
0.1830

■ 21.6535, 0.2148,  
0.1493

■ 15.8100, 0.1960,  
0.1186

■ 11.6351, 0.1794,  
0.0933

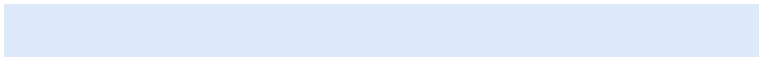
■ 8.9485, 0.1663,  
0.0751

■ 7.5156, 0.1573,  
0.0649

# Harmonies

## Analogous

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



80.7568, 0.2942, 0.3106



80.7568, 0.3029, 0.3096



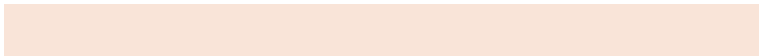
80.7568, 0.3143, 0.3136

# Triad

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



80.7568, 0.3029, 0.3096



80.7568, 0.3355, 0.3409



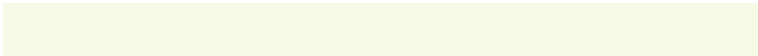
80.7568, 0.2999, 0.3366

# Complementary

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



80.7568, 0.3029, 0.3096



93.0836, 0.3221, 0.3479

# 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.



80.7568, 0.3108, 0.3452



80.7568, 0.3029, 0.3096



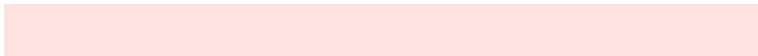
80.7568, 0.3314, 0.3475

# Square

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



80.7568, 0.3029, 0.3096



80.7568, 0.3333, 0.3314



80.7568, 0.3223, 0.3492



80.7568, 0.2925, 0.3260



# Rectangle

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



80.7568, 0.3029, 0.3096



80.7568, 0.3220, 0.3185



80.7568, 0.3223, 0.3492



80.7568, 0.3033, 0.3398

# Sweetspot

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



80.7602, 0.3029, 0.3096



95.9845, 0.3103, 0.3241



89.6867, 0.3009, 0.3261



20.5867, 0.3104, 0.3243



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.



80.7602, 0.3029, 0.3096



82.7422, 0.3010, 0.3060



82.3765, 0.3091, 0.3100



16.7754, 0.3004, 0.3046



3.9368, 0.1566, 0.0637



0.4018, 0.1660, 0.0688



# Inverse Universe

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



83.3927, 0.3155, 0.3132



85.9888, 0.3160, 0.3103



91.4344, 0.3161, 0.3483



17.4744, 0.3162, 0.3093



13.2741, 0.3657, 0.1788

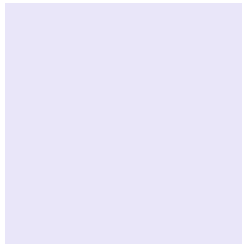


1.2417, 0.3595, 0.1754



# Previews

## White Background



This preview shows how the Yxy color 80.7568, 0.3029, 0.3096 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

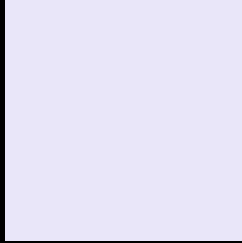
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.7568, 0.3029, 0.3096 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

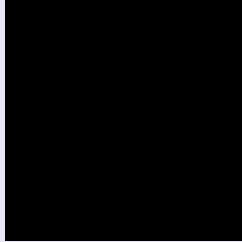
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 80.7568, 0.3029, 0.3096**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.7568, 0.3029, 0.3096.



This preview shows how white text looks on a background with the Yxy color 80.7568, 0.3029, 0.3096.

# 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

80.7568, 0.3029, 0.3096

### Protanopia

80.9803, 0.3016, 0.3106

### Deuteranopia

80.3454, 0.3111, 0.3042



## Tritanopia

80.6946, 0.3035, 0.3106

# Trichromacy



## Original Color

80.7568, 0.3029, 0.3096

## Protanomaly

81.1472, 0.3022, 0.3106

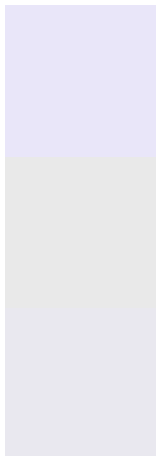
## Deuteranomaly

80.5411, 0.3077, 0.3059

## Tritanomaly

80.6946, 0.3035, 0.3106

# Monochromacy



## Original Color

80.7568, 0.3029, 0.3096

## Achromatopsia

81.4847, 0.3127, 0.3290

## Achromatomaly

81.2689, 0.3090, 0.3218

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.7568, 0.3029, 0.3096 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(233, 230, 249)` looks like.

```
.text, #text, p{  
    color:rgb(233, 230, 249)  
}
```

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(233, 230, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 230, 249) }
```

## Border

The CSS property to change the border of an element to Yxy 80.7568, 0.3029, 0.3096 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(233, 230, 249) }
```

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

```
.border{ border-color:rgb(233, 230, 249) }
```

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

Here you see how a box with a 4 pixel rgb(233, 230, 249) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 230, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 230, 249);  
box-shadow:4px 4px 4px 4px rgb(233, 230,  
249) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.7568, 0.3029, 0.3096 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 230, 249) }
```

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

```
.background{ background-color: rgb(233,  
230, 249) }
```

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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