

# Converting Colors

$Yxy(82.0799, 0.3038, 0.3135)$

Have a look what the booklet for  
Yxy(82.0799, 0.3038, 0.3135)  
contains.

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# Color

**Yxy(81.8142, 0.3035, 0.3127)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E9E8F8
RGB	233, 232, 248
RGB Percent	91%, 91%, 97%
CMY	0.0862, 0.0902, 0.0274
CMYK	0.06, 0.06, 0.00, 0.03
HSL	244°, 53%, 94%
HSV	244°, 6%, 97%
XYZ	79.4071, 81.8142, 100.4167
YIQ	234.1230, -4.5400, 5.1880

# Conversions

## Conversions Part 2

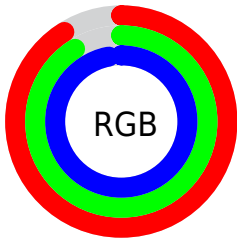
Format	Color
R <sub>Y</sub> B	233, 232, 248
Decimal	15329528
CIE Lab	92.49, 3.27, -7.62
CIE LCh	92, 8.293, 293.259
Yxy	81.8142, 0.3035, 0.3127
Android (android.graphics.Color)	4293519608 (0xFFE9E8F8)
YUV	234.1230, 6.8414, -0.9849
Hunter-Lab	90.4512, -1.5844, -2.5064

# Details

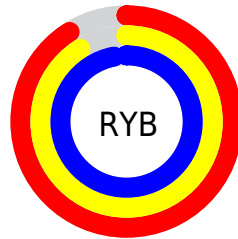
The Yxy color  $81.8142, 0.3035, 0.3127$  is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be  $92.7378, 0.3216, 0.3449$ , and the grayscale version is  $82.3307, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $44.2036, 0.3008, 0.3080$  is the 20% darker color. If you saturate the color by 10%, you get  $65.1699, 0.2875, 0.2847$ , and if you desaturate by 10%, it is  $99.5577, 0.3168, 0.3357$ .

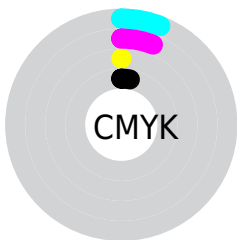
# Distribution



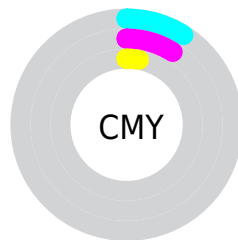
- Red (91%)
- Green (91%)
- Blue (97%)



- Red (91%)
- Yellow (91%)
- Blue (97%)



- Cyan (6%)
- Magenta (6%)
- Yellow (0%)
- Black (3%)



- Cyan (9%)
- Magenta (9%)
- Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.8142, 0.3035, 0.3127 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 81.8142, 0.3035, 0.3127 by changing the saturation by 10% instead.



81.8142, 0.3035,  
0.3127

81.8142, 0.3035,  
0.3127

501.0260, 0.3077,  
0.3200

61.2124, 0.3026,  
0.3111

135.9134, 0.3049,  
0.3152

44.3966, 0.3014,  
0.3091

170.1796, 0.3055,  
0.3162

30.9824, 0.3000,  
0.3066

209.7694, 0.3060,  
0.3170

20.5855, 0.2981,  
0.3034

255.0672, 0.3064,  
0.3178

12.8213, 0.2956,  
0.2992

306.4573, 0.3068,  
0.3185

7.3056, 0.2920,  
0.2932

364.3243, 0.3071,

3.6540, 0.2866,

0.3190

0.2844

429.0523, 0.3074,  
0.3196

■ 1.4819, 0.2775,  
0.2698

■ 0.2760, 0.2358,  
0.1901

■ 81.8142, 0.3035,  
0.3127

■ 81.8142, 0.3035,  
0.3127

■ 65.1699, 0.2875,  
0.2847

■ 99.5577, 0.3168,  
0.3357

■ 50.9051, 0.2696,  
0.2535

■ 38.9142, 0.2499,  
0.2196

■ 29.0796, 0.2291,  
0.1844

■ 21.2732, 0.2082,  
0.1495

■ 15.3532, 0.1888,  
0.1177

■ 11.1598, 0.1723,  
0.0914

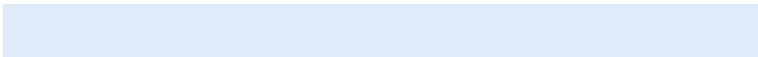
■ 8.5063, 0.1602,  
0.0729

■ 7.1615, 0.1530,  
0.0629

# Harmonies

## Analogous

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



81.8142, 0.2967, 0.3141



81.8142, 0.3035, 0.3127



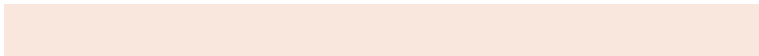
81.8142, 0.3129, 0.3155

# Triad

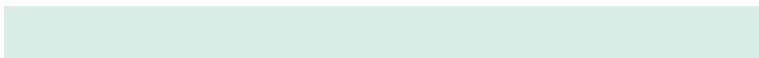
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



81.8142, 0.3035, 0.3127



81.8142, 0.3317, 0.3381



81.8142, 0.3031, 0.3364

# Complementary

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



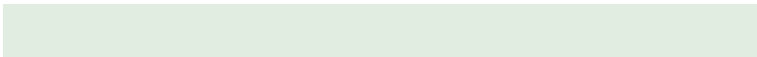
81.8142, 0.3035, 0.3127



92.7378, 0.3216, 0.3449

# Split Complementary

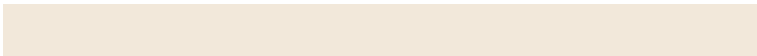
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



81.8142, 0.3124, 0.3431



81.8142, 0.3035, 0.3127



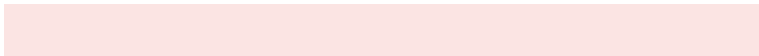
81.8142, 0.3289, 0.3439

# Square

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



81.8142, 0.3035, 0.3127



81.8142, 0.3292, 0.3300



81.8142, 0.3218, 0.3458



81.8142, 0.2965, 0.3277



# Rectangle

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



81.8142, 0.3035, 0.3127



81.8142, 0.3193, 0.3194



81.8142, 0.3218, 0.3458



81.8142, 0.3060, 0.3389

# Sweetspot

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



81.8177, 0.3035, 0.3127



95.8941, 0.3099, 0.3241



90.5810, 0.3027, 0.3282



20.5683, 0.3101, 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.



81.8177, 0.3035, 0.3127



84.2215, 0.3011, 0.3086



83.1583, 0.3086, 0.3130



16.6953, 0.2989, 0.3045



3.7386, 0.1519, 0.0610



0.3640, 0.1565, 0.0636



# Inverse Universe

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



84.3869, 0.3141, 0.3142



87.5852, 0.3144, 0.3106



91.3507, 0.3166, 0.3451



17.5045, 0.3148, 0.3071



13.9464, 0.3374, 0.1632

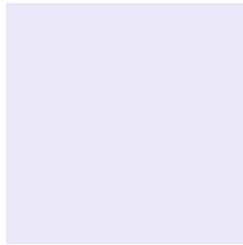


1.2972, 0.3353, 0.1621



# Previews

## White Background



This preview shows how the Yxy color 81.8142, 0.3035, 0.3127 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

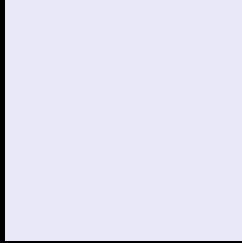
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.8142, 0.3035, 0.3127 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

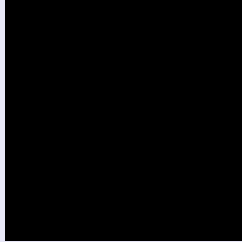
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 81.8142, 0.3035, 0.3127**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.8142, 0.3035, 0.3127.



This preview shows how white text looks on a background with the Yxy color 81.8142, 0.3035, 0.3127.

# 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

81.8142, 0.3035, 0.3127

### Protanopia

81.8142, 0.3035, 0.3127

### Deuteranopia

81.9175, 0.3137, 0.3073



## Tritanopia

81.9390, 0.3023, 0.3107

# Trichromacy



## Original Color

81.8142, 0.3035, 0.3127

## Protanomaly

81.8142, 0.3035, 0.3127

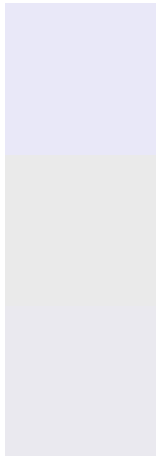
## Deuteranomaly

81.9329, 0.3096, 0.3090

## Tritanomaly

81.8764, 0.3029, 0.3117

# Monochromacy



## Original Color

81.8142, 0.3035, 0.3127

## Achromatopsia

82.2786, 0.3127, 0.3290

## Achromatomaly

82.0022, 0.3097, 0.3228

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.8142, 0.3035, 0.3127 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, 232, 248)` looks like.

```
.text, #text, p{  
    color:rgb(233, 232, 248)  
}
```

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, 232, 248) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 232, 248) }
```

## Border

The CSS property to change the border of an element to Yxy 81.8142, 0.3035, 0.3127 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, 232, 248) }
```

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

```
.border{ border-color:rgb(233, 232, 248) }
```

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

Here you see how a box with a 4 pixel rgb(233, 232, 248) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 232, 248); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 232, 248);  
box-shadow:4px 4px 4px 4px rgb(233, 232,  
248) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.8142, 0.3035, 0.3127 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 232, 248) }
```

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

```
.background{ background-color: rgb(233,  
232, 248) }
```

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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