

# Converting Colors

$Y_{xy}(81.3587, 0.3083, 0.3138)$

Have a look what the booklet for  
Yxy(81.3587, 0.3083, 0.3138)  
contains.

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# Color

**Yxy(81.3633, 0.3087, 0.3138)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEE6F5
RGB	238, 230, 245
RGB Percent	93%, 90%, 96%
CMY	0.0666, 0.0980, 0.0392
CMYK	0.03, 0.06, 0.00, 0.04
HSL	272°, 43%, 93%
HSV	272°, 6%, 96%
XYZ	80.0410, 81.3633, 97.8797
YIQ	234.1020, -0.0470, 6.3610

# Conversions

## Conversions Part 2

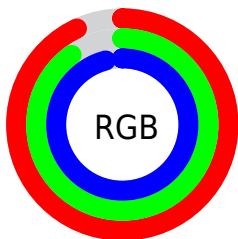
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	238, 230, 245
Decimal	15656693
CIE Lab	92.29, 5.39, -6.31
CIE LCh	92, 8.296, 310.479
Yxy	81.3633, 0.3087, 0.3138
Android (android.graphics.Color)	4293846773 (0xFFEEE6F5)
YUV	234.1020, 5.3727, 3.4185
Hunter-Lab	90.2016, 0.5403, -1.1957

# Details

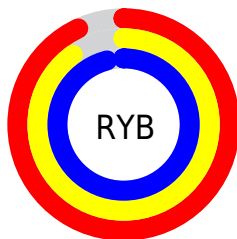
The Yxy color  $81.3633, 0.3087, 0.3138$  is a light color, and the websafe version is hex FFFFFFF. A complement of this color would be  $89.0300, 0.3165, 0.3442$ , and the grayscale version is  $82.3225, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $44.2792, 0.3075, 0.3108$  is the 20% darker color. If you saturate the color by 10%, you get  $66.7584, 0.3012, 0.2873$ , and if you desaturate by 10%, it is  $98.0174, 0.3150, 0.3382$ .

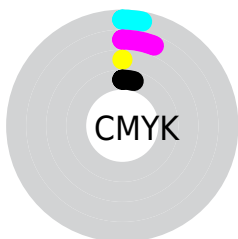
# Distribution



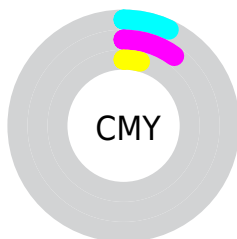
- Red (93%)
- Green (90%)
- Blue (96%)



- Red (93%)
- Yellow (90%)
- Blue (96%)



- Cyan (3%)
- Magenta (6%)
- Yellow (0%)
- Black (4%)




- Cyan (7%)
- Magenta (10%)
- Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.3633, 0.3087, 0.3138 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 81.3633, 0.3087, 0.3138 by changing the saturation by 10% instead.



 81.3633, 0.3087,  
0.3138

 81.3633, 0.3087,  
0.3138

499.5155, 0.3106,  
0.3206

 60.8409, 0.3083,  
0.3123


135.2808, 0.3093,  
0.3161

 44.0967, 0.3078,  
0.3104


169.4446, 0.3096,  
0.3171

 30.7466, 0.3071,  
0.3081


208.9243, 0.3098,  
0.3178

 20.4059, 0.3063,  
0.3052

254.1043, 0.3100,  
0.3185

 12.6905, 0.3051,  
0.3012

305.3691, 0.3102,  
0.3192

 7.2158, 0.3034,  
0.2957

363.1029, 0.3103,

 3.5974, 0.3009,

0.3197

0.2875

427.6902, 0.3104,  
0.3202

■ 1.4510, 0.2964,  
0.2739

■ 0.2539, 0.2773,  
0.1889

■ 81.3633, 0.3087,  
0.3138

■ 81.3633, 0.3087,  
0.3138

■ 66.7584, 0.3012,  
0.2873

■ 98.0174, 0.3150,  
0.3382

■ 54.1103, 0.2925,  
0.2591

■ 99.3732, 0.3185,  
0.3386

■ 43.3352, 0.2826,  
0.2298

■ 34.3389, 0.2715,  
0.2003

■ 27.0186, 0.2595,  
0.1718

■ 21.2609, 0.2470,  
0.1457

■ 16.9377, 0.2344,  
0.1236

■ 13.8994, 0.2224,  
0.1065

■ 11.9609, 0.2113,  
0.0950

# Harmonies

## Analogous

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



81.3633, 0.3001, 0.3127



81.3633, 0.3087, 0.3138



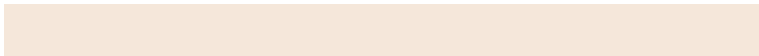
81.3633, 0.3185, 0.3188

# Triad

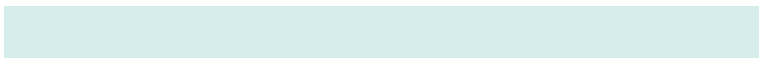
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



81.3633, 0.3087, 0.3138



81.3633, 0.3307, 0.3419



81.3633, 0.2988, 0.3315

# Complementary

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



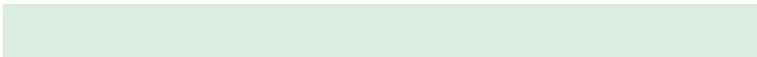
81.3633, 0.3087, 0.3138



89.0300, 0.3165, 0.3442

# Split Complementary

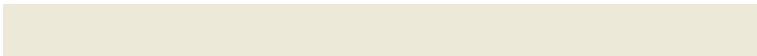
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



81.3633, 0.3068, 0.3396



81.3633, 0.3087, 0.3138



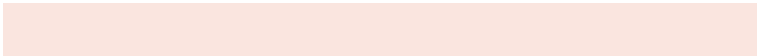
81.3633, 0.3253, 0.3456

# Square

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



81.3633, 0.3087, 0.3138



81.3633, 0.3313, 0.3348



81.3633, 0.3165, 0.3448



81.3633, 0.2945, 0.3228

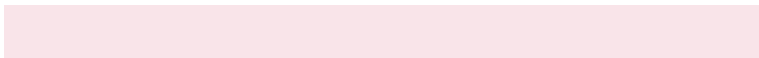


# Rectangle

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



81.3633, 0.3087, 0.3138



81.3633, 0.3243, 0.3237



81.3633, 0.3165, 0.3448



81.3633, 0.3012, 0.3344

# Sweetspot

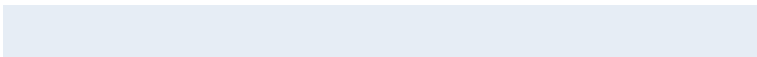
The Sweet Spot groups the original color and five complimentary colors.



81.3668, 0.3087, 0.3138



96.3406, 0.3114, 0.3241



83.9886, 0.3033, 0.3208



20.6592, 0.3115, 0.3244



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.



81.3668, 0.3087, 0.3138



87.5899, 0.3081, 0.3115



82.5721, 0.3137, 0.3145



16.9778, 0.3077, 0.3101



6.2212, 0.2090, 0.0925



0.6079, 0.2220, 0.0997



# Inverse Universe

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



82.1240, 0.3185, 0.3220



88.5371, 0.3194, 0.3209



87.8762, 0.3117, 0.3439



17.1783, 0.3200, 0.3203



11.1436, 0.5102, 0.2584

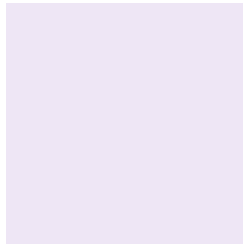


1.0000, 0.4803, 0.2420



# Previews

## White Background



This preview shows how the Yxy color 81.3633, 0.3087, 0.3138 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

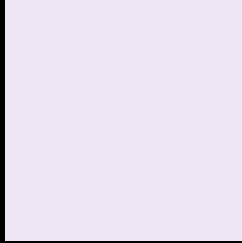
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.3633, 0.3087, 0.3138 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

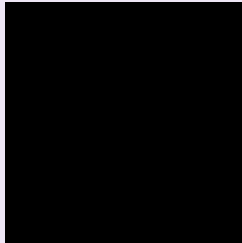
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

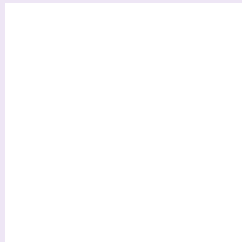
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 81.3633, 0.3087, 0.3138**

## Background



This preview shows how black text looks on a background with the Yxy color 81.3633, 0.3087, 0.3138.

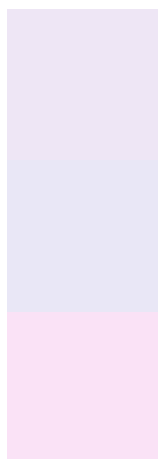


This preview shows how white text looks on a background with the Yxy color 81.3633, 0.3087, 0.3138.

# 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

81.3633, 0.3087, 0.3138

### Protanopia

81.1293, 0.3047, 0.3137

### Deuteranopia

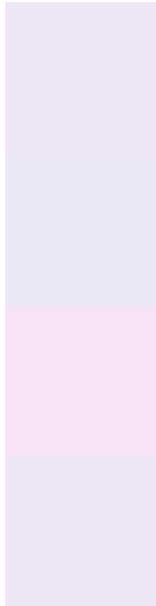
81.3705, 0.3164, 0.3092



## Tritanopia

81.5481, 0.3068, 0.3108

# Trichromacy



## Original Color

81.3633, 0.3087, 0.3138

## Protanomaly

81.4678, 0.3061, 0.3137

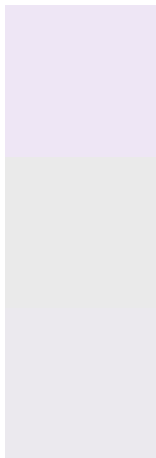
## Deuteranomaly

81.1848, 0.3136, 0.3101

## Tritanomaly

81.4862, 0.3075, 0.3118

# Monochromacy



## Original Color

81.3633, 0.3087, 0.3138

## Achromatopsia

82.2786, 0.3127, 0.3290

## Achromatomaly

82.1130, 0.3109, 0.3239

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.3633, 0.3087, 0.3138 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(238, 230, 245)` looks like.

```
.text, #text, p{  
    color:rgb(238, 230, 245)  
}
```

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(238, 230, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 230, 245) }
```

## Border

The CSS property to change the border of an element to Yxy 81.3633, 0.3087, 0.3138 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(238, 230, 245) }
```

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

```
.border{ border-color:rgb(238, 230, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 230, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 230, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 230, 245);  
box-shadow:4px 4px 4px 4px rgb(238, 230,  
245) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.3633, 0.3087, 0.3138 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 230, 245) }
```

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

```
.background{ background-color: rgb(238,  
230, 245) }
```

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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