

# Converting Colors

$Y_{xy}(81.9490, 0.3101, 0.3205)$

Have a look what the booklet for  
Yxy(81.9490, 0.3101, 0.3205)  
contains.

<b>Yxy(81.8374, 0.3104, 0.3208)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(81.8374, 0.3104, 0.3208)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECE8F0
RGB	236, 232, 240
RGB Percent	93%, 91%, 94%
CMY	0.0744, 0.0902, 0.0587
CMYK	0.02, 0.03, 0.00, 0.06
HSL	270°, 21%, 93%
HSV	270°, 3%, 94%
XYZ	79.1843, 81.8374, 94.0824
YIQ	234.1080, -0.1840, 3.3360

# Conversions

## Conversions Part 2

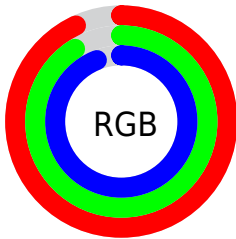
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	236, 232, 240
Decimal	15526128
CIE Lab	92.50, 2.79, -3.42
CIE LCh	93, 4.413, 309.214
Yxy	81.8374, 0.3104, 0.3208
Android (android.graphics.Color)	4293716208 (0xFFECE8F0)
YUV	234.1080, 2.9048, 1.6593
Hunter-Lab	90.4640, -2.0687, 1.6633

# Details

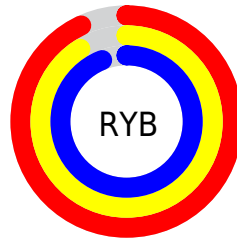
The Yxy color **81.8374, 0.3104, 0.3208** is a light color, and the websafe version is hex FFFFFF. A complement of this color would be **85.9978, 0.3150, 0.3372**, and the grayscale version is **82.3481, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **44.2147, 0.3097, 0.3185** is the 20% darker color. If you saturate the color by 10%, you get **67.2546, 0.3027, 0.2949**, and if you desaturate by 10%, it is **97.7704, 0.3170, 0.3436**.

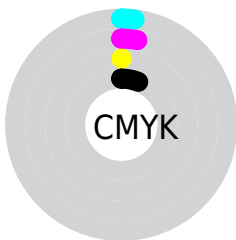
# Distribution



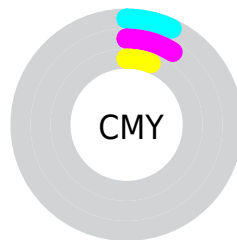
- Red (93%)
- Green (91%)
- Blue (94%)



- Red (93%)
- Yellow (91%)
- Blue (94%)



- Cyan (2%)
- Magenta (3%)
- Yellow (0%)
- Black (6%)




- Cyan (7%)
- Magenta (9%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.8374, 0.3104, 0.3208 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 81.8374, 0.3104, 0.3208 by changing the saturation by 10% instead.




 81.8374, 0.3104,  
0.3208

 81.8374, 0.3104,  
0.3208

501.1036, 0.3115,  
0.3245

 61.2315, 0.3102,  
0.3200

135.9460, 0.3108,  
0.3221

 44.4120, 0.3099,  
0.3190


170.2174, 0.3109,  
0.3226

 30.9946, 0.3095,  
0.3177


209.8129, 0.3110,  
0.3230

 20.5947, 0.3090,  
0.3161

255.1167, 0.3111,  
0.3234

 12.8281, 0.3084,  
0.3139

306.5133, 0.3112,  
0.3237

 7.3103, 0.3074,  
0.3109

364.3870, 0.3113,

 3.6569, 0.3060,

0.3240

0.3063

429.1224, 0.3114,  
0.3243

■ 1.4835, 0.3036,  
0.2986

■ 0.2771, 0.2884,  
0.2411

■ 81.8374, 0.3104,  
0.3208

■ 81.8374, 0.3104,  
0.3208

■ 67.2546, 0.3027,  
0.2949

■ 97.7704, 0.3170,  
0.3436

■ 54.5744, 0.2937,  
0.2669

■ 99.0730, 0.3214,  
0.3434

■ 43.7182, 0.2833,  
0.2376

■ 34.5979, 0.2718,  
0.2076

■ 27.1177, 0.2592,  
0.1782

■ 21.1723, 0.2460,  
0.1507

■ 16.6435, 0.2327,  
0.1268

■ 13.3953, 0.2198,  
0.1077

■ 11.2628, 0.2080,  
0.0943

# Harmonies

## Analogous

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



81.8374, 0.3059, 0.3204



81.8374, 0.3104, 0.3208



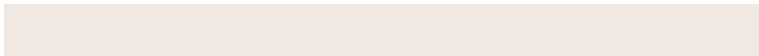
81.8374, 0.3156, 0.3234

# Triad

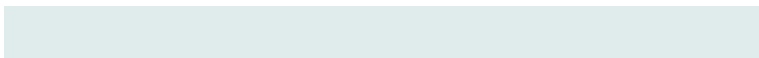
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



81.8374, 0.3104, 0.3208



81.8374, 0.3223, 0.3357



81.8374, 0.3055, 0.3305

# Complementary

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



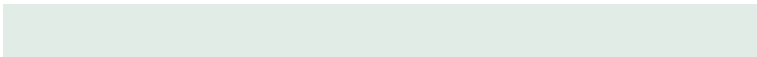
81.8374, 0.3104, 0.3208



85.9978, 0.3150, 0.3372

# 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.



81.8374, 0.3098, 0.3348



81.8374, 0.3104, 0.3208



81.8374, 0.3196, 0.3378

# Square

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



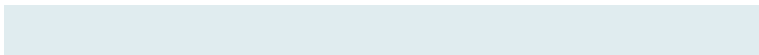
81.8374, 0.3104, 0.3208



81.8374, 0.3225, 0.3320



81.8374, 0.3150, 0.3374



81.8374, 0.3031, 0.3259



# Rectangle

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



81.8374, 0.3104, 0.3208



81.8374, 0.3187, 0.3260



81.8374, 0.3150, 0.3374



81.8374, 0.3068, 0.3320

# Sweetspot

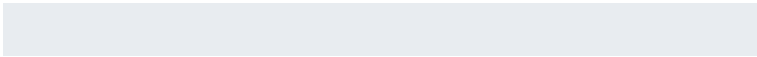
The Sweet Spot groups the original color and five complimentary colors.



81.8409, 0.3104, 0.3208



98.1431, 0.3120, 0.3266



83.4471, 0.3076, 0.3249



21.0262, 0.3121, 0.3267



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.



81.8409, 0.3104, 0.3208



92.7106, 0.3099, 0.3191



82.5353, 0.3131, 0.3209



17.1270, 0.3094, 0.3173



5.7149, 0.2025, 0.0889



0.5346, 0.2167, 0.0967



# Inverse Universe

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



82.2989, 0.3156, 0.3249



93.3393, 0.3162, 0.3241



85.3189, 0.3123, 0.3373



17.2657, 0.3169, 0.3232



10.9082, 0.4961, 0.2507

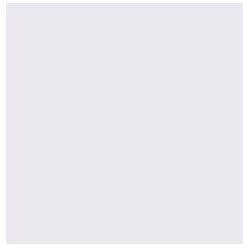


0.9275, 0.4668, 0.2345



# Previews

## White Background



This preview shows how the Yxy color 81.8374, 0.3104, 0.3208 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

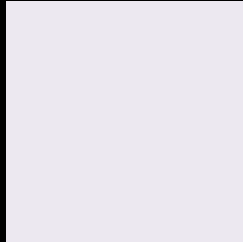
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.8374, 0.3104, 0.3208 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

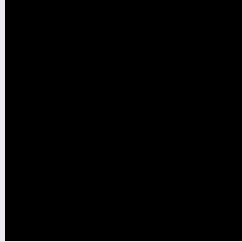
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

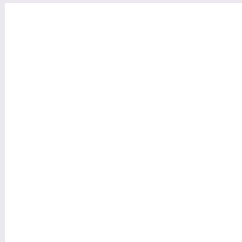
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 81.8374, 0.3104, 0.3208**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.8374, 0.3104, 0.3208.

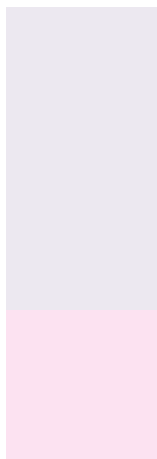


This preview shows how white text looks on a background with the Yxy color 81.8374, 0.3104, 0.3208.

# 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

81.8374, 0.3104, 0.3208

### Protanopia

81.8374, 0.3104, 0.3208

### Deuteranopia

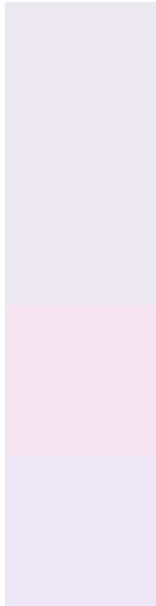
81.4390, 0.3210, 0.3142



## Tritanopia

81.9959, 0.3055, 0.3108

# Trichromacy



## Original Color

81.8374, 0.3104, 0.3208

## Protanomaly

81.8374, 0.3104, 0.3208

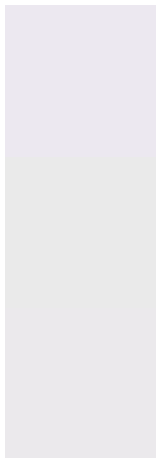
## Deuteranomaly

81.4305, 0.3168, 0.3160

## Tritanomaly

81.8102, 0.3074, 0.3138

# Monochromacy



## Original Color

81.8374, 0.3104, 0.3208

## Achromatopsia

82.2786, 0.3127, 0.3290

## Achromatomaly

81.9961, 0.3122, 0.3259

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.8374, 0.3104, 0.3208 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(236, 232, 240)` looks like.

```
.text, #text, p{  
    color:rgb(236, 232, 240)  
}
```

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(236, 232, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 232, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 81.8374, 0.3104, 0.3208 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(236, 232, 240) }
```

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

```
.border{ border-color:rgb(236, 232, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 232, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 232, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 232, 240);  
box-shadow:4px 4px 4px 4px rgb(236, 232,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.8374, 0.3104, 0.3208 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 232, 240) }
```

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

```
.background{ background-color: rgb(236,  
232, 240) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor