

# Converting Colors

$Y_{xy}(81.6765, 0.3169, 0.3398)$

Have a look what the booklet for  
Yxy(81.6765, 0.3169, 0.3398)  
contains.

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# Color

**Yxy(81.7874, 0.3169, 0.3405)**

# Conversions

Conversions Part 1	
Format	Color
Hex	E7EBE0
RGB	231, 235, 224
RGB Percent	91%, 92%, 88%
CMY	0.0941, 0.0784, 0.1216
CMYK	0.02, 0.00, 0.05, 0.08
HSL	82°, 22%, 90%
HSV	82°, 5%, 92%
XYZ	76.1187, 81.7874, 82.2918
YIQ	232.5500, 1.1470, -4.2690

# Conversions

## Conversions Part 2

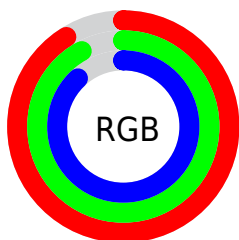
Format	Color
<a href="#">RYB</a>	<a href="#">224, 235, 228</a>
Decimal	<a href="#">15199200</a>
CIELab	<a href="#">92.48, -3.27, 4.86</a>
CIELCh	<a href="#">92, 5.854, 123.914</a>
Yxy	<a href="#">81.7874, 0.3169, 0.3405</a>
Android (android.graphics.Color)	<a href="#">4293389280</a> (0xFFE7EBE0)
YUV	<a href="#">232.5500, -4.2152, -1.3594</a>
Hunter-Lab	<a href="#">90.4364, -8.0233, 9.3550</a>

# Details

The Yxy color 81.7874, 0.3169, 0.3405 is a light color, and the websafe version is hex FFFFFF. A complement of this color would be 75.8006, 0.3084, 0.3174, and the grayscale version is 81.1639, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 44.2187, 0.3173, 0.3425 is the 20% darker color. If you saturate the color by 10%, you get 79.2171, 0.3259, 0.3664, and if you desaturate by 10%, it is 84.6102, 0.3080, 0.3165.

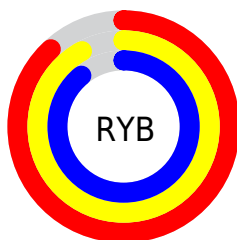
# Distribution



Red (91%)

Green (92%)

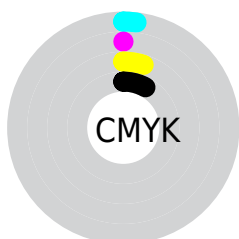
Blue (88%)



Red (88%)

Yellow (92%)

Blue (89%)

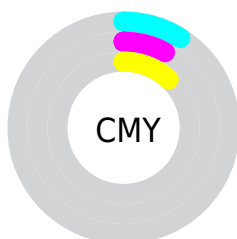


Cyan (2%)

Magenta (0%)

Yellow (5%)

Black (8%)



Cyan (9%)


Magenta (8%)


Yellow (12%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 81.7874, 0.3169, 0.3405 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 81.7874, 0.3169, 0.3405 by changing the saturation by 10% instead.


 81.7874, 0.3169,  
0.3405

 81.7874, 0.3169,  
0.3405


500.9363, 0.3150,  
0.3353

 61.1903, 0.3173,  
0.3417


135.8758, 0.3163,  
0.3387

 44.3788, 0.3178,  
0.3431


170.1359, 0.3160,  
0.3380

 30.9684, 0.3185,  
0.3450


209.7192, 0.3158,  
0.3374

 20.5748, 0.3193,  
0.3473

255.0100, 0.3156,  
0.3369

 12.8135, 0.3204,  
0.3505

306.3927, 0.3154,  
0.3364

 7.3003, 0.3219,  
0.3551


364.2517, 0.3153,

 3.6506, 0.3242,

0.3360

0.3620


428.9714, 0.3151,  
0.3356


 1.4801, 0.3279,  
0.3741

 0.2747, 0.3976,  
0.6024


 81.7874, 0.3169,  
0.3405

 81.7874, 0.3169,  
0.3405


 79.2171, 0.3259,  
0.3664

 84.6102, 0.3080,  
0.3165


 76.8807, 0.3348,  
0.3938


 86.6090, 0.3091,  
0.3095


 74.7728, 0.3432,  
0.4221


 87.8992, 0.3136,  
0.3097


 72.8843, 0.3506,  
0.4504

 71.2051, 0.3566,  
0.4776

 69.7241, 0.3606,  
0.5024

 68.4292, 0.3624,  
0.5235

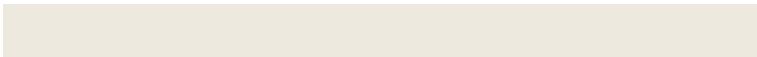
 67.3061, 0.3616,  
0.5399

 66.3377, 0.3584,  
0.5511

# Harmonies

## Analogous

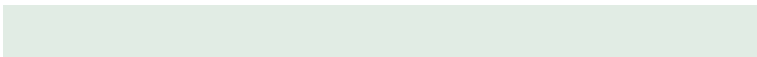
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



81.7874, 0.3227, 0.3404



81.7874, 0.3169, 0.3405



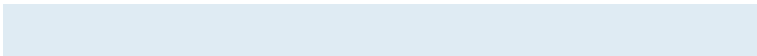
81.7874, 0.3101, 0.3375

# Triad

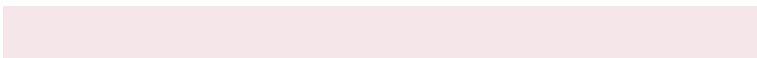
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



81.7874, 0.3169, 0.3405



81.7874, 0.2998, 0.3207



81.7874, 0.3215, 0.3259

# Complementary

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



81.7874, 0.3169, 0.3405



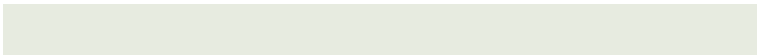
75.8006, 0.3084, 0.3174

# 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.



81.7874, 0.3153, 0.3208



81.7874, 0.3169, 0.3405



81.7874, 0.3028, 0.3178

# Square

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



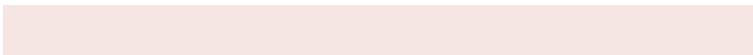
81.7874, 0.3169, 0.3405



81.7874, 0.3002, 0.3259



81.7874, 0.3085, 0.3178



81.7874, 0.3254, 0.3319

# Rectangle

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



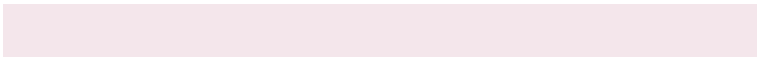
81.7874, 0.3169, 0.3405



81.7874, 0.3058, 0.3341



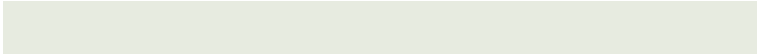
81.7874, 0.3085, 0.3178



81.7874, 0.3196, 0.3240

# Sweetspot

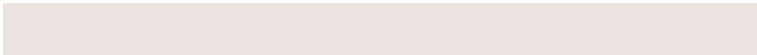
The Sweet Spot groups the original color and five complimentary colors.



81.7909, 0.3169, 0.3405



99.6617, 0.3136, 0.3314



78.4483, 0.3202, 0.3330



21.3353, 0.3136, 0.3313



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.



81.7909, 0.3169, 0.3405



98.0150, 0.3181, 0.3439



80.9126, 0.3133, 0.3406



17.4975, 0.3186, 0.3454



36.7341, 0.3571, 0.5547



2.9385, 0.3657, 0.5478



# Inverse Universe

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



75.8006, 0.3084, 0.3174



88.8221, 0.3071, 0.3140



76.6909, 0.3121, 0.3176



15.6971, 0.3065, 0.3125



4.4874, 0.1789, 0.0759

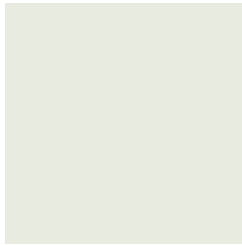


0.4051, 0.1942, 0.0844



# Previews

## White Background



This preview shows how the Yxy color 81.7874, 0.3169, 0.3405 looks on a white background.

## Color Contrast Check

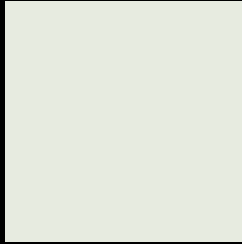
Large Text (above 18pt) WCAG AA × Fail

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 81.7874, 0.3169, 0.3405 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

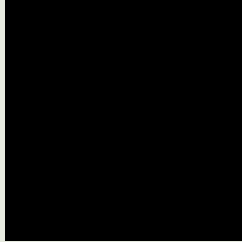
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

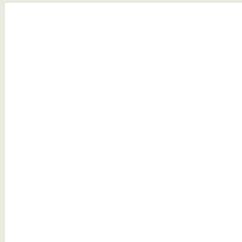
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 81.7874, 0.3169, 0.3405**

## Background



This preview shows how black text looks on a background with the Yxy color 81.7874, 0.3169, 0.3405.

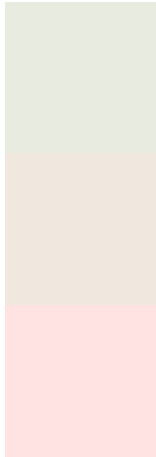


This preview shows how white text looks on a background with the Yxy color 81.7874, 0.3169, 0.3405.

# 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

81.7874, 0.3169, 0.3405

### Protanopia

81.5662, 0.3240, 0.3383

### Deuteranopia

81.7442, 0.3324, 0.3291



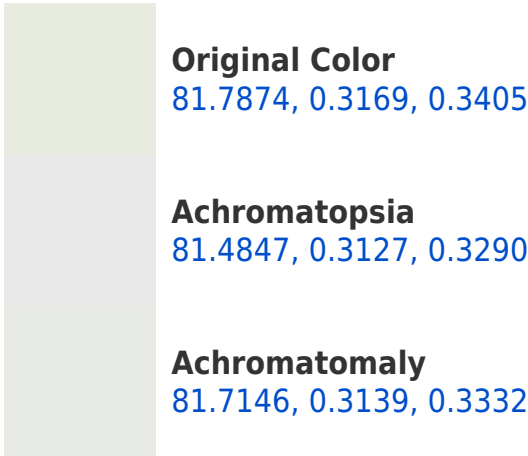
## Tritanopia

81.6535, 0.3042, 0.3108

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.7874, 0.3169, 0.3405 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(231, 235, 224)` looks like.

```
.text, #text, p{  
    color:rgb(231, 235, 224)  
}
```

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(231, 235, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 235, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 81.7874, 0.3169, 0.3405 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(231, 235, 224) }
```

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

```
.border{ border-color:rgb(231, 235, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 235, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 235, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 235, 224);  
box-shadow:4px 4px 4px 4px rgb(231, 235,  
224) }
```

# Background

The CSS property to change the background color of an element to Yxy 81.7874, 0.3169, 0.3405 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 235, 224) }
```

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

```
.background{ background-color: rgb(231,  
235, 224) }
```

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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