

# Converting Colors

$Y_{xy}(77.1010, 0.3148, 0.3348)$

Have a look what the booklet for  
Yxy(77.1010, 0.3148, 0.3348)  
contains.

<b>Yxy(76.9833, 0.3145, 0.3343)</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(76.9833, 0.3145, 0.3343)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E2E4DF
RGB	226, 228, 223
RGB Percent	89%, 89%, 87%
CMY	0.1138, 0.1058, 0.1254
CMYK	0.01, 0.00, 0.02, 0.11
HSL	85°, 8%, 88%
HSV	85°, 2%, 89%
XYZ	72.4237, 76.9833, 80.8751
YIQ	226.8320, 0.4130, -1.9790

# Conversions

## Conversions Part 2

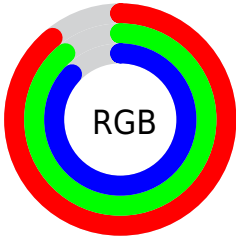
Format	Color
R <sub>Y</sub> B	223, 228, 225
Decimal	14869727
CIE Lab	90.31, -1.56, 2.17
CIE LCh	90, 2.678, 125.736
Yxy	76.9833, 0.3145, 0.3343
Android (android.graphics.Color)	4293059807 (0xFFE2E4DF)
YUV	226.8320, -1.8892, -0.7297
Hunter-Lab	87.7401, -6.2052, 6.7671

# Details

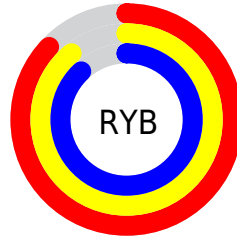
The Yxy color **76.9833, 0.3145, 0.3343** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **74.4123, 0.3109, 0.3237**, and the grayscale version is **76.7020, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **41.3722, 0.3151, 0.3359** is the 20% darker color. If you saturate the color by 10%, you get **74.3720, 0.3227, 0.3598**, and if you desaturate by 10%, it is **79.8488, 0.3064, 0.3108**.

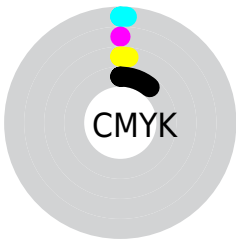
# Distribution



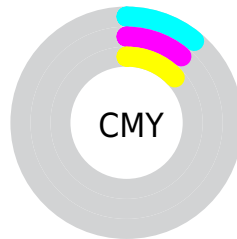
- Red (89%)
- Green (89%)
- Blue (87%)



- Red (87%)
- Yellow (89%)
- Blue (88%)



- Cyan (1%)
- Magenta (0%)
- Yellow (2%)
- Black (11%)



- Cyan (11%)
- Magenta (11%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.9833, 0.3145, 0.3343 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 76.9833, 0.3145, 0.3343 by changing the saturation by 10% instead.



■ 76.9833, 0.3145,  
0.3343

■ 76.9833, 0.3145,  
0.3343

484.7071, 0.3137,  
0.3319

■ 57.2392, 0.3147,  
0.3349

129.1159, 0.3142,  
0.3335

■ 41.1973, 0.3149,  
0.3355

162.2732, 0.3141,  
0.3331

■ 28.4733, 0.3152,  
0.3364

200.6703, 0.3140,  
0.3329

■ 18.6827, 0.3156,  
0.3375

244.6916, 0.3139,  
0.3326

■ 11.4413, 0.3161,  
0.3390

294.7216, 0.3139,  
0.3324

■ 6.3644, 0.3168,  
0.3412

351.1445, 0.3138,

■ 3.0679, 0.3178,

0.3322

0.3446

414.3449, 0.3137,  
0.3320

■ 1.1673, 0.3197,  
0.3507

■ 0.0348, 0.0000,  
1.0000

■ 76.9833, 0.3145,  
0.3343

■ 76.9833, 0.3145,  
0.3343

■ 74.3720, 0.3227,  
0.3598

■ 79.8488, 0.3064,  
0.3108

■ 71.9971, 0.3309,  
0.3870

■ 82.0565, 0.3070,  
0.3023

■ 69.8536, 0.3386,  
0.4155

■ 83.7721, 0.3132,  
0.3028

■ 67.9326, 0.3455,  
0.4445

■ 83.9725, 0.3139,  
0.3029

■ 66.2245, 0.3511,  
0.4728

■ 64.7190, 0.3549,  
0.4991

■ 63.4044, 0.3566,  
0.5222

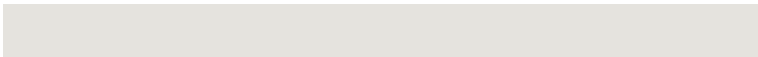
■ 62.2677, 0.3558,  
0.5407

■ 61.2933, 0.3527,  
0.5539

# Harmonies

## Analogous

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



76.9833, 0.3172, 0.3344



76.9833, 0.3145, 0.3343



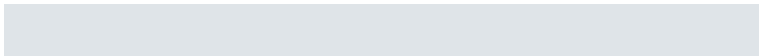
76.9833, 0.3113, 0.3328

# Triad

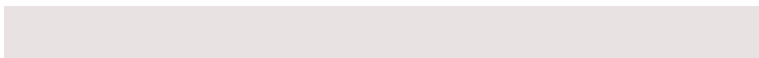
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



76.9833, 0.3145, 0.3343



76.9833, 0.3067, 0.3250



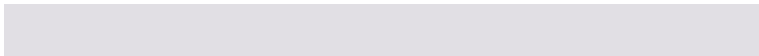
76.9833, 0.3170, 0.3277

# Complementary

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



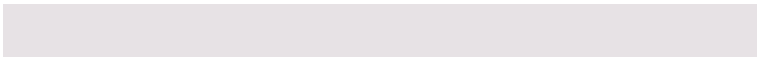
76.9833, 0.3145, 0.3343



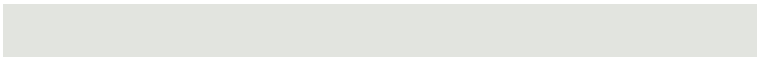
74.4123, 0.3109, 0.3237

# Split Complementary

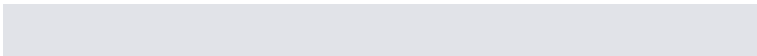
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



76.9833, 0.3141, 0.3253



76.9833, 0.3145, 0.3343



76.9833, 0.3082, 0.3237

# Square

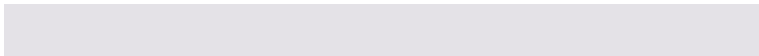
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



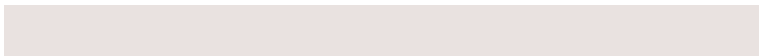
76.9833, 0.3145, 0.3343



76.9833, 0.3068, 0.3274



76.9833, 0.3109, 0.3238



76.9833, 0.3187, 0.3306



# Rectangle

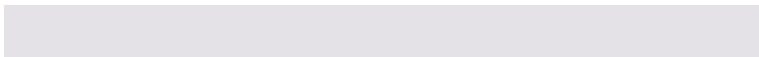
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



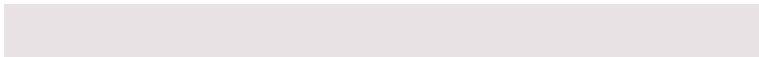
76.9833, 0.3145, 0.3343



76.9833, 0.3093, 0.3312



76.9833, 0.3109, 0.3238



76.9833, 0.3161, 0.3268

# Sweetspot

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



76.9866, 0.3145, 0.3343



99.6396, 0.3135, 0.3314



75.6879, 0.3161, 0.3311



21.3308, 0.3135, 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.



76.9866, 0.3145, 0.3343



98.9287, 0.3152, 0.3364



76.5941, 0.3128, 0.3343



16.8361, 0.3158, 0.3383



35.0752, 0.3500, 0.5603



2.6459, 0.3599, 0.5525



# Inverse Universe

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



74.4123, 0.3109, 0.3237



94.3681, 0.3102, 0.3216



74.8084, 0.3126, 0.3237



15.8656, 0.3095, 0.3197



4.6500, 0.1861, 0.0799

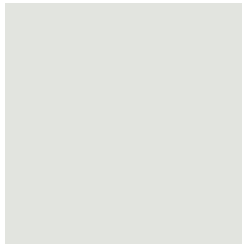


0.3968, 0.2025, 0.0889



# Previews

## White Background



This preview shows how the Yxy color 76.9833, 0.3145, 0.3343 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

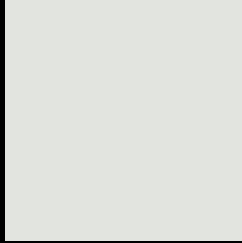
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 76.9833, 0.3145, 0.3343 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

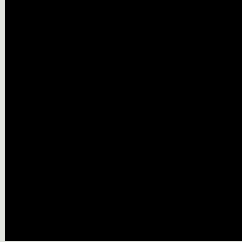
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

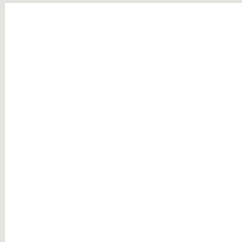
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 76.9833, 0.3145, 0.3343**

## **Background**



This preview shows how black text looks on a background with the Yxy color 76.9833, 0.3145, 0.3343.

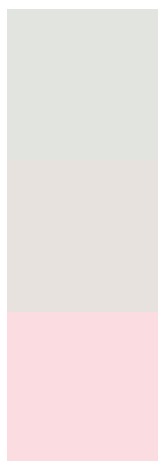


This preview shows how white text looks on a background with the Yxy color 76.9833, 0.3145, 0.3343.

# 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

76.9833, 0.3145, 0.3343

### Protanopia

76.8224, 0.3195, 0.3332

### Deuteranopia

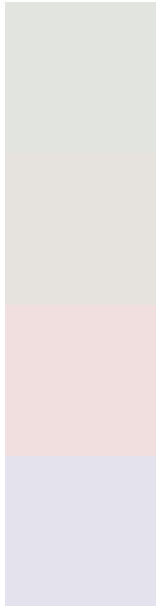
76.9466, 0.3310, 0.3240



## Tritanopia

76.9795, 0.3040, 0.3103

# Trichromacy



## Original Color

76.9833, 0.3145, 0.3343

## Protanomaly

77.0351, 0.3180, 0.3343

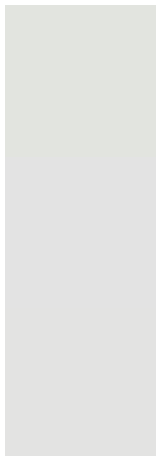
## Deuteranomaly

76.8579, 0.3248, 0.3280

## Tritanomaly

76.9428, 0.3077, 0.3185

# Monochromacy



## Original Color

76.9833, 0.3145, 0.3343

## Achromatopsia

76.8151, 0.3127, 0.3290

## Achromatomaly

76.7601, 0.3134, 0.3301

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 76.9833, 0.3145, 0.3343 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(226, 228, 223) looks like.

```
.text, #text, p{  
    color:rgb(226, 228, 223)  
}
```

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(226, 228, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 228, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 76.9833, 0.3145, 0.3343 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(226, 228, 223) }
```

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

```
.border{ border-color:rgb(226, 228, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 228, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 228, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 228, 223);  
box-shadow:4px 4px 4px 4px rgb(226, 228,  
223) }
```



# Background

The CSS property to change the background color of an element to Yxy 76.9833, 0.3145, 0.3343 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 228, 223) }
```

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

```
.background{ background-color: rgb(226,  
228, 223) }
```

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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