

# Converting Colors

$Y_{xy}(83.9970, 0.3050, 0.3275)$

Have a look what the booklet for  
Yxy(83.9970, 0.3050, 0.3275)  
contains.

<b>Yxy(83.9343, 0.3050, 0.3269)</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(83.9343, 0.3050, 0.3269)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4EEF0
RGB	228, 238, 240
RGB Percent	89%, 93%, 94%
CMY	0.1057, 0.0667, 0.0588
CMYK	0.05, 0.01, 0.00, 0.06
HSL	190°, 28%, 92%
HSV	190°, 5%, 94%
XYZ	78.3113, 83.9343, 94.5127
YIQ	235.2380, -6.6020, -1.4980

# Conversions

## Conversions Part 2

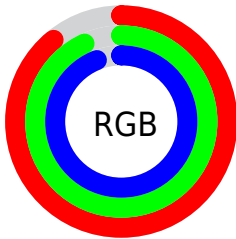
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 233, 240
Decimal	15003376
CIE Lab	93.42, -2.91, -2.12
CIE LCh	93, 3.600, 216.168
Yxy	83.9343, 0.3050, 0.3269
Android (android.graphics.Color)	4293193456 (0xFFE4EEF0)
YUV	235.2380, 2.3477, -6.3477
Hunter-Lab	91.6157, -7.7491, 2.9661

# Details

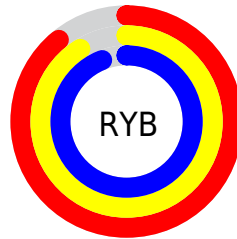
The Yxy color **83.9343, 0.3050, 0.3269** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **80.7649, 0.3208, 0.3311**, and the grayscale version is **83.2626, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.8008, 0.3036, 0.3263** is the 20% darker color. If you saturate the color by 10%, you get **77.9499, 0.2897, 0.3224**, and if you desaturate by 10%, it is **90.5238, 0.3205, 0.3310**.

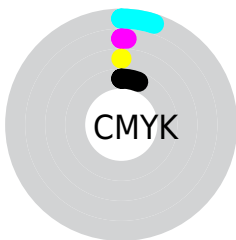
# Distribution



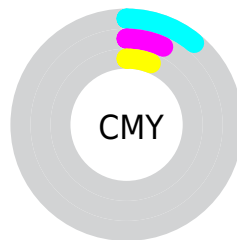
- Red (89%)
- Green (93%)
- Blue (94%)



- Red (89%)
- Yellow (91%)
- Blue (94%)



- Cyan (5%)
- Magenta (1%)
- Yellow (0%)
- Black (6%)



- Cyan (11%)
- Magenta (7%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.9343, 0.3050, 0.3269 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 83.9343, 0.3050, 0.3269 by changing the saturation by 10% instead.



83.9343, 0.3050,  
0.3269

83.9343, 0.3050,  
0.3269

508.0950, 0.3085,  
0.3279

62.9612, 0.3042,  
0.3267

138.8833, 0.3062,  
0.3272

45.8098, 0.3033,  
0.3264

173.6279, 0.3067,  
0.3274

32.0958, 0.3021,  
0.3261

213.7319, 0.3071,  
0.3275

21.4347, 0.3006,  
0.3256

259.5795, 0.3074,  
0.3276

13.4421, 0.2986,  
0.3250

311.5553, 0.3077,  
0.3277

7.7337, 0.2957,  
0.3242

370.0435, 0.3080,

3.9250, 0.2914,

0.3277

435.4286, 0.3083,  
0.3278

0.3229

1.6317, 0.2843,  
0.3207

0.3788, 0.2353,  
0.3083

83.9343, 0.3050,  
0.3269

83.9343, 0.3050,  
0.3269

77.9499, 0.2897,  
0.3224

90.5238, 0.3205,  
0.3310

72.5371, 0.2750,  
0.3174

93.5135, 0.3222,  
0.3349

67.6754, 0.2611,  
0.3122

96.0035, 0.3218,  
0.3388

63.3388, 0.2484,  
0.3065

98.5474, 0.3215,  
0.3427

■ 59.4988, 0.2372,  
0.3007

■ 99.0715, 0.3214,  
0.3434

■ 56.1241, 0.2277,  
0.2947

■ 53.1796, 0.2201,  
0.2885

■ 50.6243, 0.2144,  
0.2824

■ 48.4080, 0.2107,  
0.2764

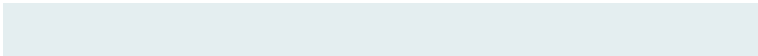
# Harmonies

## Analogous

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



83.9343, 0.3072, 0.3306



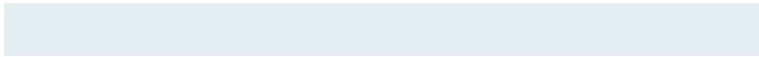
83.9343, 0.3050, 0.3269



83.9343, 0.3049, 0.3238

# Triad

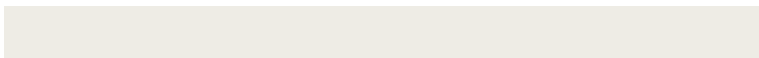
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.9343, 0.3050, 0.3269



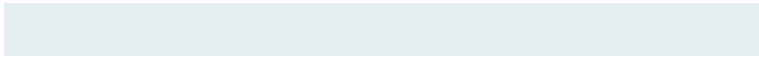
83.9343, 0.3146, 0.3242



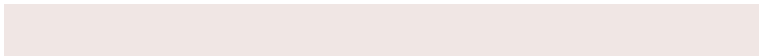
83.9343, 0.3186, 0.3360

# Complementary

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



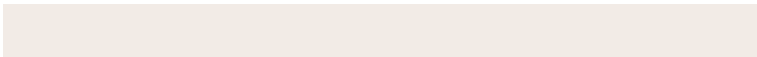
83.9343, 0.3050, 0.3269



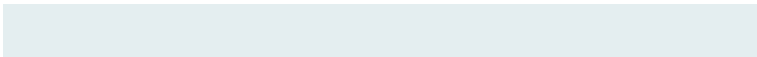
80.7649, 0.3208, 0.3311

# Split Complementary

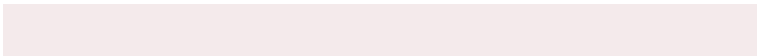
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.9343, 0.3206, 0.3342



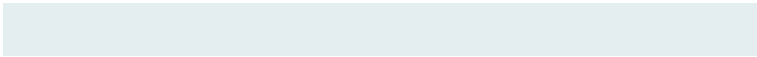
83.9343, 0.3050, 0.3269



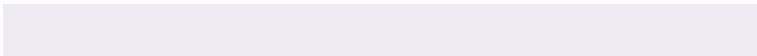
83.9343, 0.3183, 0.3274

# Square

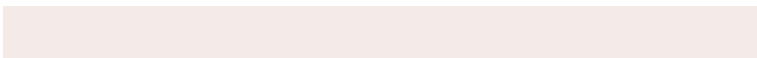
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.9343, 0.3050, 0.3269



83.9343, 0.3104, 0.3222



83.9343, 0.3205, 0.3311



83.9343, 0.3150, 0.3359



# Rectangle

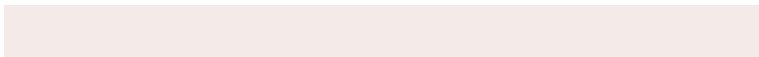
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



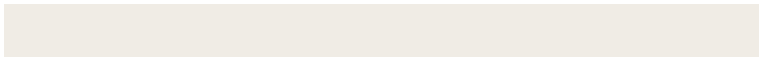
83.9343, 0.3050, 0.3269



83.9343, 0.3060, 0.3225



83.9343, 0.3205, 0.3311



83.9343, 0.3195, 0.3356

# Sweetspot

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



83.9379, 0.3050, 0.3269



99.2455, 0.3112, 0.3286



84.5417, 0.3109, 0.3393



21.2506, 0.3112, 0.3286



0.0000, 0.0000, 0.0000

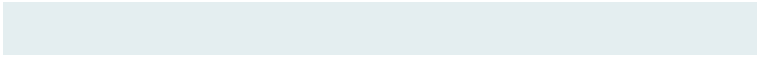


21.4041, 0.3127, 0.3290

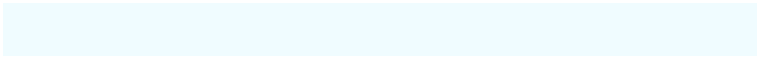


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.9379, 0.3050, 0.3269



95.5778, 0.3034, 0.3265



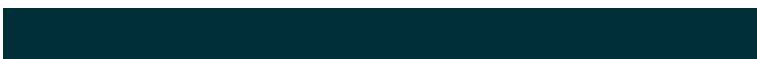
80.5311, 0.3051, 0.3207



17.8215, 0.3024, 0.3262



26.1092, 0.2096, 0.2743



2.2909, 0.2118, 0.2823



# Inverse Universe

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



80.2176, 0.3146, 0.3189



90.4586, 0.3150, 0.3168



84.1340, 0.3204, 0.3371



16.7704, 0.3152, 0.3155



12.4291, 0.3687, 0.1805

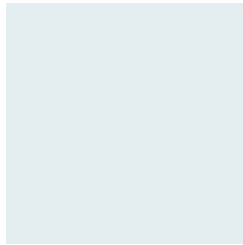


1.0460, 0.3613, 0.1764



# Previews

## White Background



This preview shows how the Yxy color 83.9343, 0.3050, 0.3269 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

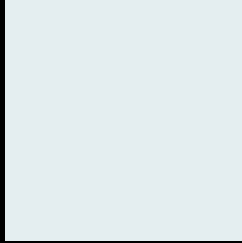
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.9343, 0.3050, 0.3269 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

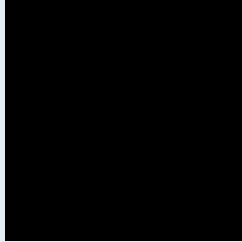
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

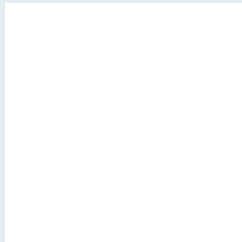
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.9343, 0.3050, 0.3269**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.9343, 0.3050, 0.3269.



This preview shows how white text looks on a background with the Yxy color 83.9343, 0.3050, 0.3269.

# 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

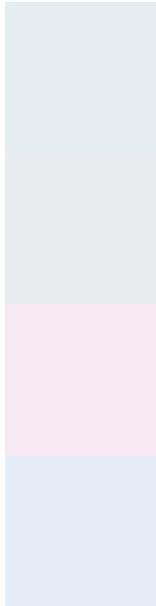




## Tritanopia

83.9697, 0.2980, 0.3107

# Trichromacy



## Original Color

83.9343, 0.3050, 0.3269

## Protanomaly

83.8851, 0.3102, 0.3259

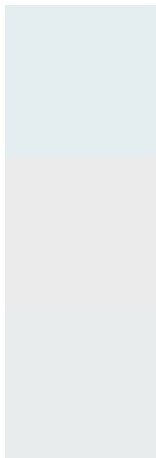
## Deuteranomaly

83.4766, 0.3158, 0.3200

## Tritanomaly

84.0659, 0.3003, 0.3167

# Monochromacy



## Original Color

83.9343, 0.3050, 0.3269

## Achromatopsia

83.0770, 0.3127, 0.3290

## Achromatomaly

83.2611, 0.3094, 0.3280

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.9343, 0.3050, 0.3269 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(228, 238, 240)` looks like.

```
.text, #text, p{  
    color:rgb(228, 238, 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(228, 238, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 238, 240) }
```

## Border

The CSS property to change the border of an element to Yxy 83.9343, 0.3050, 0.3269 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(228, 238, 240) }
```

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

```
.border{ border-color:rgb(228, 238, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(228, 238, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 238, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 238, 240);  
box-shadow:4px 4px 4px 4px rgb(228, 238,  
240) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.9343, 0.3050, 0.3269 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 238, 240) }
```

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

```
.background{ background-color: rgb(228,  
238, 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