

# Converting Colors

$Y_{xy}(84.3277, 0.3099, 0.3297)$

Have a look what the booklet for  
Yxy(84.3277, 0.3099, 0.3297)  
contains.

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# Color

**Yxy(84.5871, 0.3100, 0.3300)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E9EEED
RGB	233, 238, 237
RGB Percent	91%, 93%, 93%
CMY	0.0864, 0.0666, 0.0705
CMYK	0.02, 0.00, 0.00, 0.07
HSL	168°, 13%, 92%
HSV	168°, 2%, 93%
XYZ	79.4606, 84.5871, 92.2768
YIQ	236.3910, -2.6590, -1.3710

# Conversions

## Conversions Part 2

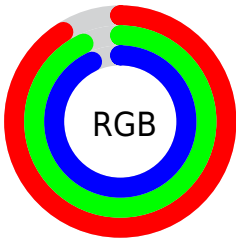
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	233, 236, 238
Decimal	15331053
CIE Lab	93.70, -1.84, -0.12
CIE LCh	94, 1.848, 183.733
Yxy	84.5871, 0.3100, 0.3300
Android (android.graphics.Color)	4293521133 (0xFFE9EEED)
YUV	236.3910, 0.3002, -2.9739
Hunter-Lab	91.9712, -6.7306, 4.8929

# Details

The Yxy color **84.5871, 0.3100, 0.3300** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **82.3801, 0.3155, 0.3280**, and the grayscale version is **84.1954, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **46.1392, 0.3093, 0.3303** is the 20% darker color. If you saturate the color by 10%, you get **80.5828, 0.2974, 0.3350**, and if you desaturate by 10%, it is **88.8079, 0.3217, 0.3254**.

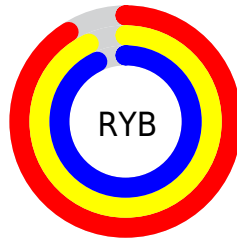
# Distribution



Red (91%)

Green (93%)

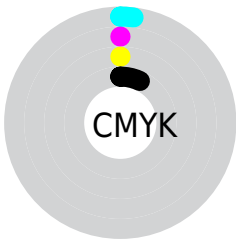
Blue (93%)



Red (91%)

Yellow (93%)

Blue (93%)

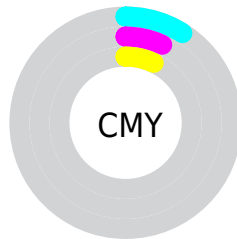


Cyan (2%)

Magenta (0%)

Yellow (0%)

Black (7%)



Cyan (9%)

Magenta (7%)

Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 84.5871, 0.3100, 0.3300 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 84.5871, 0.3100, 0.3300 by changing the saturation by 10% instead.



■ 84.5871, 0.3100,  
0.3300

■ 84.5871, 0.3100,  
0.3300

510.2608, 0.3112,  
0.3296

■ 63.5003, 0.3097,  
0.3301

139.7961, 0.3104,  
0.3298

■ 46.2460, 0.3094,  
0.3302

174.6872, 0.3106,  
0.3298

■ 32.4400, 0.3090,  
0.3304

214.9483, 0.3107,  
0.3297

■ 21.6978, 0.3084,  
0.3306

260.9641, 0.3109,  
0.3297

■ 13.6350, 0.3077,  
0.3308

313.1188, 0.3110,  
0.3297

■ 7.8673, 0.3067,  
0.3312

371.7969, 0.3111,

■ 4.0101, 0.3052,

0.3296

0.3317

437.3828, 0.3111,  
0.3296

■ 1.6792, 0.3027,  
0.3326

■ 0.4102, 0.2850,  
0.3390

■ 84.5871, 0.3100,  
0.3300

■ 84.5871, 0.3100,  
0.3300

■ 80.5828, 0.2974,  
0.3350

■ 88.8079, 0.3217,  
0.3254

■ 77.1007, 0.2855,  
0.3406

■ 89.0913, 0.3188,  
0.3209

■ 74.1215, 0.2745,  
0.3466

■ 89.3819, 0.3159,  
0.3165

■ 71.6204, 0.2648,  
0.3530

■ 89.6357, 0.3135,  
0.3127

■ 69.5707, 0.2565,  
0.3597

■ 67.9430, 0.2500,  
0.3667

■ 66.7042, 0.2454,  
0.3739

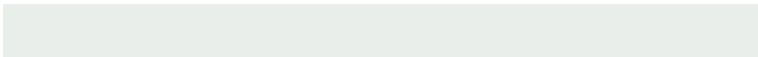
■ 65.8164, 0.2429,  
0.3811

■ 65.2339, 0.2422,  
0.3882

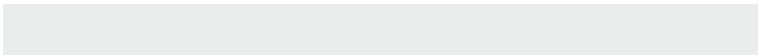
# Harmonies

## Analogous

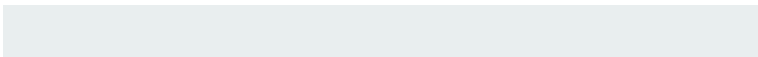
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



84.5871, 0.3119, 0.3316



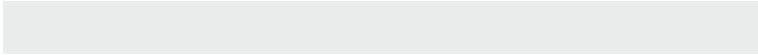
84.5871, 0.3100, 0.3300



84.5871, 0.3088, 0.3281

# Triad

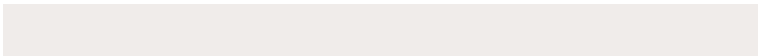
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



84.5871, 0.3100, 0.3300



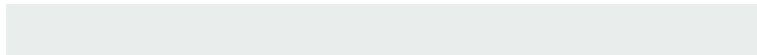
84.5871, 0.3114, 0.3255



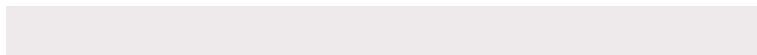
84.5871, 0.3168, 0.3316

# Complementary

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



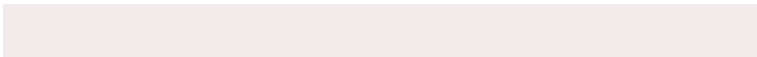
84.5871, 0.3100, 0.3300



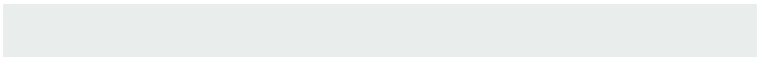
82.3801, 0.3155, 0.3280

# Split Complementary

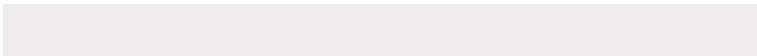
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



84.5871, 0.3167, 0.3299



84.5871, 0.3100, 0.3300



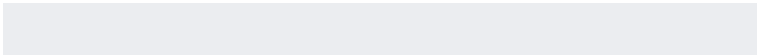
84.5871, 0.3135, 0.3264

# Square

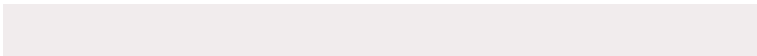
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



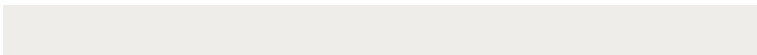
84.5871, 0.3100, 0.3300



84.5871, 0.3096, 0.3255



84.5871, 0.3155, 0.3280



84.5871, 0.3158, 0.3326

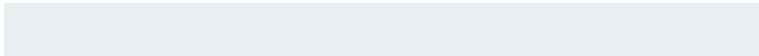


# Rectangle

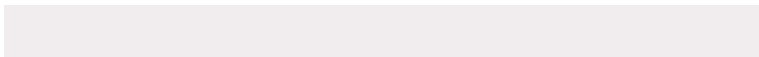
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



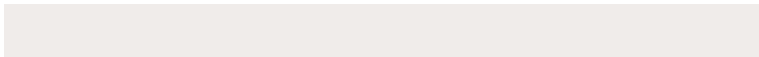
84.5871, 0.3100, 0.3300



84.5871, 0.3086, 0.3269



84.5871, 0.3155, 0.3280



84.5871, 0.3169, 0.3311

# Sweetspot

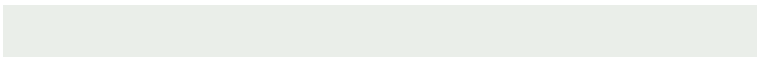
The Sweet Spot groups the original color and five complimentary colors.



84.5907, 0.3100, 0.3300



99.4874, 0.3114, 0.3295



84.5266, 0.3131, 0.3342



21.2998, 0.3115, 0.3295



0.0000, 0.0000, 0.0000

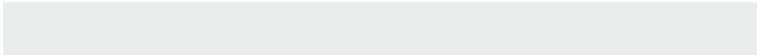


21.4041, 0.3127, 0.3290



# Same Dimension

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



84.5907, 0.3100, 0.3300



98.4817, 0.3089, 0.3304



83.7721, 0.3095, 0.3274



18.3753, 0.3079, 0.3308



36.2410, 0.2424, 0.3927



3.0283, 0.2398, 0.3833

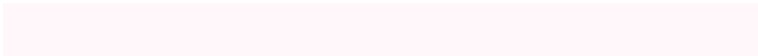


# Inverse Universe

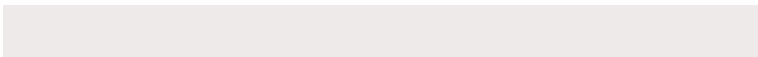
The Inverse Universe completely reimagines the original color for something new.



82.3801, 0.3155, 0.3280



94.8260, 0.3167, 0.3276



83.1828, 0.3160, 0.3306



17.5174, 0.3178, 0.3272



10.2683, 0.6084, 0.3125

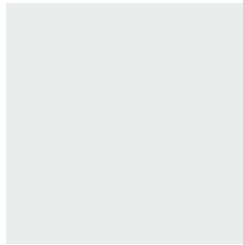


0.8678, 0.5734, 0.2933



# Previews

## White Background



This preview shows how the Yxy color 84.5871, 0.3100, 0.3300 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

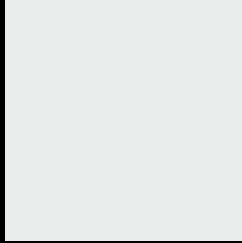
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 84.5871, 0.3100, 0.3300 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

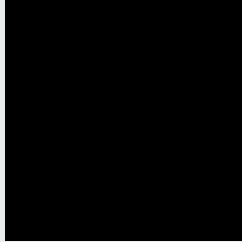
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

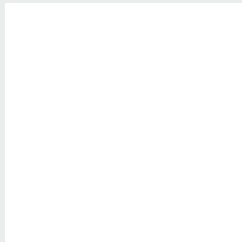
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 84.5871, 0.3100, 0.3300**

## **Background**



This preview shows how black text looks on a background with the Yxy color 84.5871, 0.3100, 0.3300.

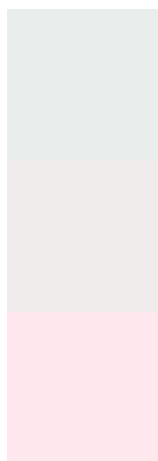


This preview shows how white text looks on a background with the Yxy color 84.5871, 0.3100, 0.3300.

# 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

84.5871, 0.3100, 0.3300

### Protanopia

84.7478, 0.3161, 0.3290

### Deuteranopia

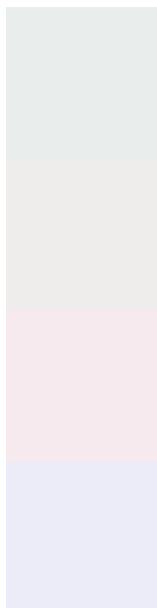
84.5849, 0.3247, 0.3222



## Tritanopia

84.4053, 0.3018, 0.3099

# Trichromacy



## Original Color

84.5871, 0.3100, 0.3300

## Protanomaly

84.8016, 0.3140, 0.3300

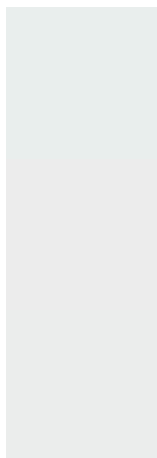
## Deuteranomaly

84.7928, 0.3190, 0.3250

## Tritanomaly

84.4304, 0.3047, 0.3169

# Monochromacy



## Original Color

84.5871, 0.3100, 0.3300

## Achromatopsia

83.8799, 0.3127, 0.3290

## Achromatomaly

84.2867, 0.3120, 0.3300

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 84.5871, 0.3100, 0.3300 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(233, 238, 237)` looks like.

```
.text, #text, p{  
    color:rgb(233, 238, 237)  
}
```

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(233, 238, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 238, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 84.5871, 0.3100, 0.3300 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(233, 238, 237) }
```

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

```
.border{ border-color:rgb(233, 238, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 238, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 238, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 238, 237);  
box-shadow:4px 4px 4px 4px rgb(233, 238,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 84.5871, 0.3100, 0.3300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 238, 237) }
```

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

```
.background{ background-color: rgb(233,  
238, 237) }
```

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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