

# Converting Colors

$Y_{xy}(83.7831, 0.3126, 0.3402)$

Have a look what the booklet for  
Yxy(83.7831, 0.3126, 0.3402)  
contains.

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# Color

**Yxy(83.9925, 0.3128, 0.3404)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E5EFE4
RGB	229, 239, 228
RGB Percent	90%, 94%, 89%
CMY	0.1020, 0.0627, 0.1057
CMYK	0.04, 0.00, 0.05, 0.06
HSL	115°, 26%, 92%
HSV	115°, 5%, 94%
XYZ	77.1823, 83.9925, 85.5717
YIQ	234.7560, -2.4290, -5.5410

# Conversions

## Conversions Part 2

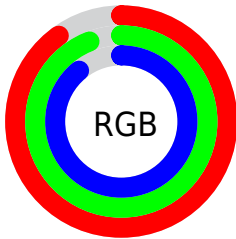
Format	Color
<a href="#">RYB</a>	<a href="#">228, 239, 238</a>
Decimal	<a href="#">15069156</a>
CIELab	<a href="#">93.45, -5.28, 4.14</a>
CIELCh	<a href="#">93, 6.706, 141.925</a>
Yxy	<a href="#">83.9925, 0.3128, 0.3404</a>
Android (android.graphics.Color)	<a href="#">4293259236</a> ( <a href="#">0xFFE5EFE4</a> )
YUV	<a href="#">234.7560, -3.3307, -5.0480</a>
Hunter-Lab	<a href="#">91.6474, -10.0564, 8.7938</a>

# Details

The Yxy color **83.9925, 0.3128, 0.3404** is a light color, and the websafe version is hex **FFFFFF**. A complement of this color would be **79.9312, 0.3126, 0.3178**, and the grayscale version is **82.9114, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.8828, 0.3129, 0.3424** is the 20% darker color. If you saturate the color by 10%, you get **79.3872, 0.3129, 0.3677**, and if you desaturate by 10%, it is **89.2411, 0.3126, 0.3164**.

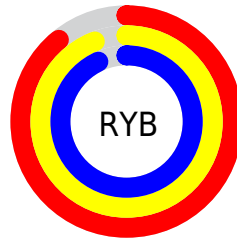
# Distribution



Red (90%)

Green (94%)

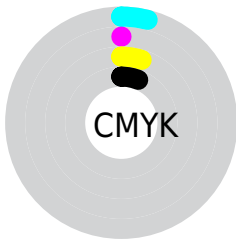
Blue (89%)



Red (89%)

Yellow (94%)

Blue (93%)

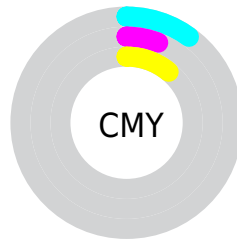


Cyan (4%)

Magenta (0%)

Yellow (5%)

Black (6%)



Cyan (10%)

Magenta (6%)


Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.9925, 0.3128, 0.3404 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 83.9925, 0.3128, 0.3404 by changing the saturation by 10% instead.




 83.9925, 0.3128,  
0.3404

 83.9925, 0.3128,  
0.3404

508.2883, 0.3128,  
0.3352

 63.0092, 0.3128,  
0.3416


138.9647, 0.3128,  
0.3386

 45.8487, 0.3128,  
0.3430

173.7224, 0.3128,  
0.3379

 32.1264, 0.3128,  
0.3448


213.8404, 0.3128,  
0.3373

 21.4581, 0.3128,  
0.3471

259.7031, 0.3128,  
0.3368

 13.4593, 0.3127,  
0.3502

311.6948, 0.3128,  
0.3363

 7.7456, 0.3127,  
0.3547

370.2000, 0.3128,

 3.9326, 0.3125,

0.3359

0.3614

435.6030, 0.3128,  
0.3356

■ 1.6359, 0.3121,  
0.3731

■ 0.3816, 0.3152,  
0.5144

■ 83.9925, 0.3128,  
0.3404

■ 83.9925, 0.3128,  
0.3404

■ 79.3872, 0.3129,  
0.3677

■ 89.2411, 0.3126,  
0.3164

■ 75.3903, 0.3127,  
0.3982

■ 90.2178, 0.3134,  
0.3136

■ 71.9794, 0.3122,  
0.4315

■ 69.1271, 0.3114,  
0.4665

■ 66.8034, 0.3102,  
0.5017

■ 64.9757, 0.3086,  
0.5345

■ 63.6077, 0.3066,  
0.5623

■ 62.6581, 0.3045,  
0.5829

■ 62.0781, 0.3024,  
0.5951

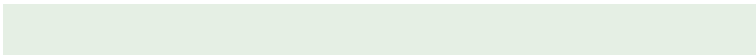
# Harmonies

## Analogous

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



83.9925, 0.3203, 0.3425



83.9925, 0.3128, 0.3404



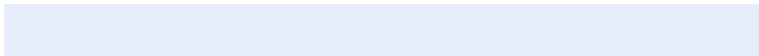
83.9925, 0.3053, 0.3352

# Triad

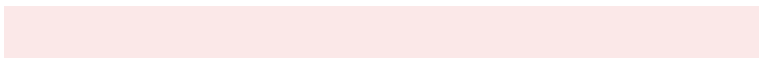
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.9925, 0.3128, 0.3404



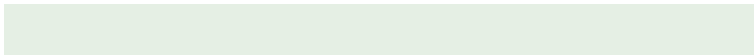
83.9925, 0.2997, 0.3172



83.9925, 0.3258, 0.3295

# Complementary

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



83.9925, 0.3128, 0.3404



79.9312, 0.3126, 0.3178

# 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.



83.9925, 0.3201, 0.3230



83.9925, 0.3128, 0.3404



83.9925, 0.3050, 0.3159

# Square

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



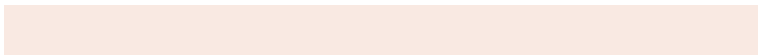
83.9925, 0.3128, 0.3404



83.9925, 0.2978, 0.3217



83.9925, 0.3125, 0.3180



83.9925, 0.3279, 0.3361



# Rectangle

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



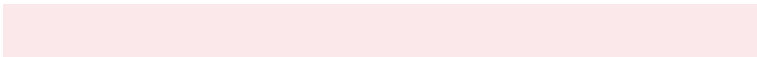
83.9925, 0.3128, 0.3404



83.9925, 0.3013, 0.3306



83.9925, 0.3125, 0.3180



83.9925, 0.3242, 0.3273

# Sweetspot

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



83.9961, 0.3128, 0.3404



99.3972, 0.3127, 0.3314



85.0534, 0.3196, 0.3391



21.2815, 0.3127, 0.3313



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

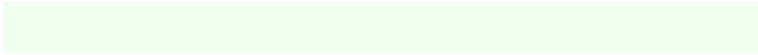


# Same Dimension

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



83.9961, 0.3128, 0.3404



96.4957, 0.3128, 0.3441



84.0891, 0.3095, 0.3358



18.0112, 0.3128, 0.3457



34.2226, 0.3019, 0.5985



2.8690, 0.3066, 0.5947



# Inverse Universe

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



79.9312, 0.3126, 0.3178



90.3763, 0.3126, 0.3143



79.8379, 0.3161, 0.3223



16.7534, 0.3125, 0.3127



11.7574, 0.2995, 0.1424

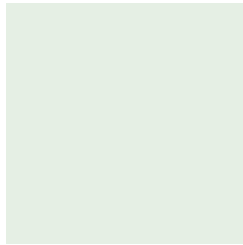


0.9982, 0.3025, 0.1440



# Previews

## White Background



This preview shows how the Yxy color 83.9925, 0.3128, 0.3404 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

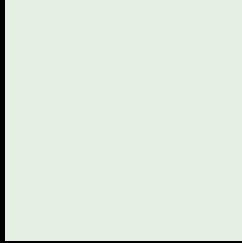
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.9925, 0.3128, 0.3404 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

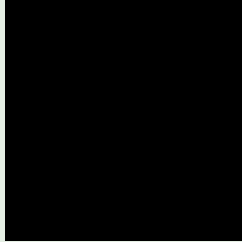
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

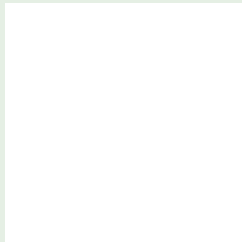
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.9925, 0.3128, 0.3404**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.9925, 0.3128, 0.3404.

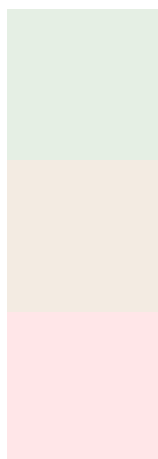


This preview shows how white text looks on a background with the Yxy color 83.9925, 0.3128, 0.3404.

# 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

83.9925, 0.3128, 0.3404

### Protanopia

83.9623, 0.3238, 0.3382

### Deuteranopia

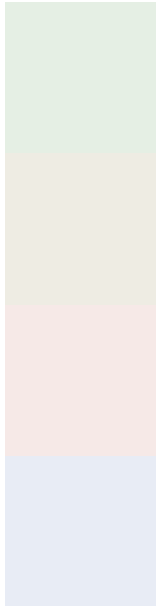
83.6798, 0.3287, 0.3271



## Tritanopia

83.8961, 0.2999, 0.3098

# Trichromacy



## Original Color

83.9925, 0.3128, 0.3404

## Protanomaly

83.7141, 0.3197, 0.3382

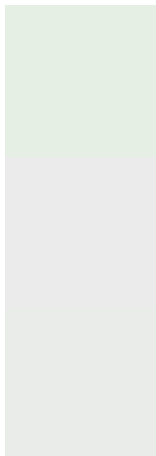
## Deuteranomaly

83.6402, 0.3228, 0.3310

## Tritanomaly

83.7393, 0.3046, 0.3198

# Monochromacy



## Original Color

83.9925, 0.3128, 0.3404

## Achromatopsia

83.0770, 0.3127, 0.3290

## Achromatomaly

83.1407, 0.3132, 0.3331

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.9925, 0.3128, 0.3404 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(229, 239, 228)` looks like.

```
.text, #text, p{  
    color:rgb(229, 239, 228)  
}
```

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(229, 239, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 239, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 83.9925, 0.3128, 0.3404 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(229, 239, 228) }
```

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

```
.border{ border-color:rgb(229, 239, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 239, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(229, 239, 228); -webkit-box-shadow:4px 4px 4px 4px rgb(229, 239, 228); box-shadow:4px 4px 4px 4px rgb(229, 239, 228) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.9925, 0.3128, 0.3404 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 239, 228) }
```

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

```
.background{ background-color: rgb(229,  
239, 228) }
```

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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