

# Converting Colors

$Y_{xy}(83.6649, 0.3256, 0.3218)$

Have a look what the booklet for  
Yxy(83.6649, 0.3256, 0.3218)  
contains.

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# Color

**Yxy(83.4130, 0.3255, 0.3212)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE5ED
RGB	255, 229, 237
RGB Percent	100%, 90%, 93%
CMY	0.0002, 0.1019, 0.0707
CMYK	0.00, 0.10, 0.07, 0.00
HSL	342°, 100%, 95%
HSV	342°, 10%, 100%
XYZ	84.5297, 83.4130, 91.7491
YIQ	237.6860, 12.9280, 8.0000

# Conversions

## Conversions Part 2

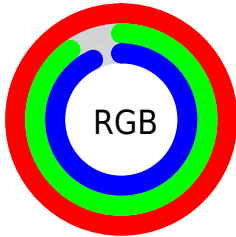
Format	Color
R <sub>Y</sub> B	255, 229, 237
Decimal	16770541
CIE Lab	93.19, 10.16, -0.64
CIE LCh	93, 10.184, 356.408
Yxy	83.4130, 0.3255, 0.3212
Android (android.graphics.Color)	4294960621 (0xFFFFE5ED)
YUV	237.6860, -0.3382, 15.1844
Hunter-Lab	91.3307, 5.3790, 4.3699

# Details

The Yxy color 83.4130, 0.3255, 0.3212 is a light color, and the websafe version is hex FFFFFFFF. A complement of this color would be 94.8675, 0.3014, 0.3369, and the grayscale version is 85.2376, 0.3127, 0.3290.

A 20% lighter version of the original color is 100.0000, 0.3127, 0.3290, and 45.6141, 0.3283, 0.3202 is the 20% darker color. If you saturate the color by 10%, you get 69.3441, 0.3410, 0.3131, and if you desaturate by 10%, it is 99.6629, 0.3129, 0.3289.

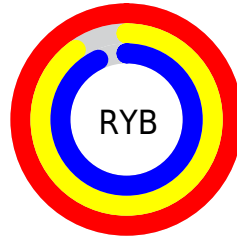
# Distribution



Red (100%)

Green (90%)

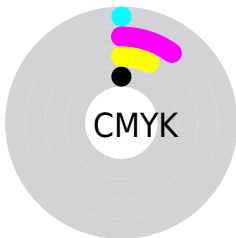
Blue (93%)



Red (100%)

Yellow (90%)

Blue (93%)

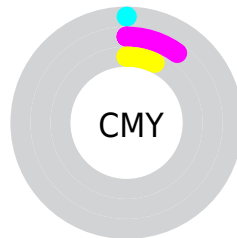


Cyan (0%)

Magenta (10%)

Yellow (7%)

Black (0%)



Cyan (0%)

Magenta (10%)


Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.4130, 0.3255, 0.3212 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 83.4130, 0.3255, 0.3212 by changing the saturation by 10% instead.




 83.4130, 0.3255,  
0.3212

 83.4130, 0.3255,  
0.3212


506.3619, 0.3197,  
0.3247

 62.5309, 0.3268,  
0.3204


138.1538, 0.3235,  
0.3224

 45.4618, 0.3284,  
0.3195


172.7812, 0.3227,  
0.3229

 31.8213, 0.3303,  
0.3183


212.7592, 0.3221,  
0.3233

 21.2251, 0.3329,  
0.3167

258.4723, 0.3215,  
0.3236

 13.2886, 0.3363,  
0.3147

310.3046, 0.3210,  
0.3240

 7.6276, 0.3410,  
0.3118

368.6408, 0.3205,

 3.8576, 0.3482,

0.3242

0.3075

433.8651, 0.3201,  
0.3245

■ 1.5942, 0.3603,  
0.3002

■ 0.3537, 0.4272,  
0.2586

■ 83.4130, 0.3255,  
0.3212

■ 83.4130, 0.3255,  
0.3212

■ 69.3441, 0.3410,  
0.3131

99.6629, 0.3129,  
0.3289

■ 57.3524, 0.3600,  
0.3046

99.9911, 0.3127,  
0.3290

■ 47.3419, 0.3830,  
0.2963

■ 39.2048, 0.4104,  
0.2887

■ 32.8229, 0.4423,  
0.2828

■ 28.0644, 0.4775,  
0.2798

■ 24.7786, 0.5142,  
0.2808

■ 22.7861, 0.5491,  
0.2866

■ 21.8044, 0.5787,  
0.2962

# Harmonies

## Analogous

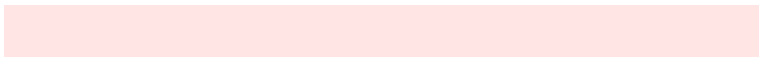
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.4130, 0.3141, 0.3132



83.4130, 0.3255, 0.3212



83.4130, 0.3335, 0.3312

# Triad

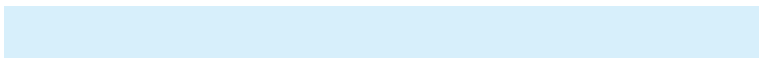
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.4130, 0.3255, 0.3212



83.4130, 0.3227, 0.3495



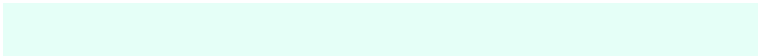
83.4130, 0.2902, 0.3165

# Complementary

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



83.4130, 0.3255, 0.3212



94.8675, 0.3014, 0.3369

# Split Complementary

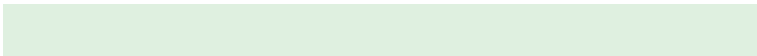
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



83.4130, 0.2924, 0.3262



83.4130, 0.3255, 0.3212



83.4130, 0.3110, 0.3455

# Square

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



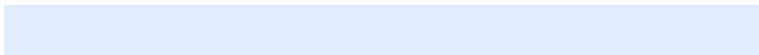
83.4130, 0.3255, 0.3212



83.4130, 0.3318, 0.3477



83.4130, 0.2999, 0.3369



83.4130, 0.2938, 0.3104

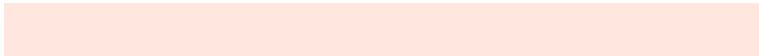


# Rectangle

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



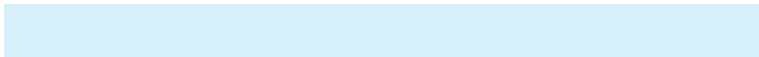
83.4130, 0.3255, 0.3212



83.4130, 0.3358, 0.3379



83.4130, 0.2999, 0.3369



83.4130, 0.2902, 0.3194

# Sweetspot

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



83.4167, 0.3255, 0.3212



94.8789, 0.3162, 0.3268



82.9967, 0.3084, 0.3035



20.0224, 0.3172, 0.3262



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

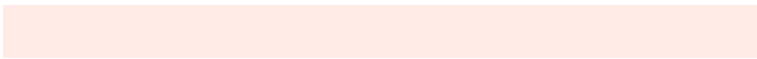
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.4167, 0.3255, 0.3212



80.7149, 0.3281, 0.3197



85.6291, 0.3302, 0.3337



18.0788, 0.3246, 0.3217



11.4212, 0.5744, 0.2938



1.1306, 0.5424, 0.2762



# Inverse Universe

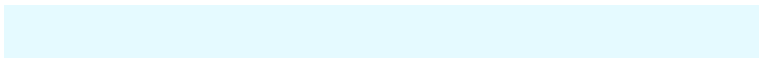
The Inverse Universe completely reimagines the original color for something new.



83.4167, 0.3255, 0.3212



80.7149, 0.3281, 0.3197



92.3744, 0.2970, 0.3242



18.0788, 0.3246, 0.3217



11.4212, 0.5744, 0.2938

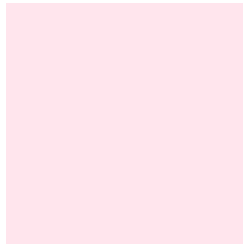


1.1306, 0.5424, 0.2762



# Previews

## White Background



This preview shows how the Yxy color 83.4130, 0.3255, 0.3212 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

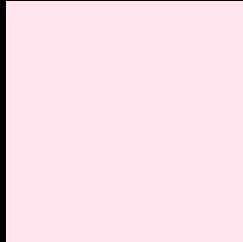
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.4130, 0.3255, 0.3212 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

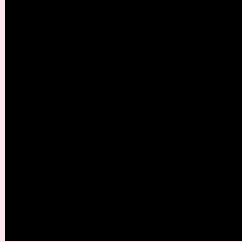
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 83.4130, 0.3255, 0.3212**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.4130, 0.3255, 0.3212.

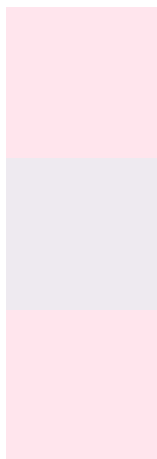


This preview shows how white text looks on a background with the Yxy color 83.4130, 0.3255, 0.3212.

# 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

83.4130, 0.3255, 0.3212

### Protanopia

83.3141, 0.3117, 0.3229

### Deuteranopia

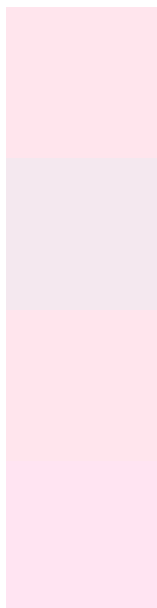
83.4130, 0.3255, 0.3212



## Tritanopia

83.3394, 0.3204, 0.3124

# Trichromacy



## Original Color

83.4130, 0.3255, 0.3212

## Protanomaly

83.1783, 0.3164, 0.3220

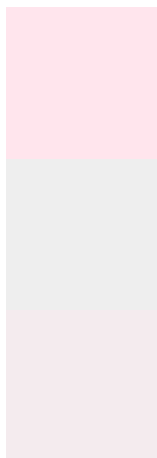
## Deuteranomaly

83.4130, 0.3255, 0.3212

## Tritanomaly

83.1576, 0.3223, 0.3153

# Monochromacy



## Original Color

83.4130, 0.3255, 0.3212

## Achromatopsia

85.4993, 0.3127, 0.3290

## Achromatomaly

84.8228, 0.3169, 0.3260

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.4130, 0.3255, 0.3212 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(255, 229, 237)` looks like.

```
.text, #text, p{  
    color:rgb(255, 229, 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(255, 229, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 229, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 83.4130, 0.3255, 0.3212 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(255, 229, 237) }
```

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

```
.border{ border-color:rgb(255, 229, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 229, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 229, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 229, 237);  
box-shadow:4px 4px 4px 4px rgb(255, 229,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.4130, 0.3255, 0.3212 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 229, 237) }
```

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

```
.background{ background-color: rgb(255,  
229, 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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