

# Converting Colors

$Y_{xy}(100.0000, 0.3529, 0.2980)$

Have a look what the booklet for  
Yxy(100.0000, 0.3529, 0.2980)  
contains.

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# Color

**Yxy(83.9668, 0.3139, 0.3029)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE4FF
RGB	255, 228, 255
RGB Percent	100%, 89%, 100%
CMY	0.0002, 0.1058, 0.0000
CMYK	0.00, 0.11, 0.00, 0.00
HSL	300°, 100%, 95%
HSV	300°, 11%, 100%
XYZ	87.0161, 83.9668, 106.2267
YIQ	239.1510, 7.4250, 14.1210

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 228, 255
Decimal	16770303
CIE Lab	93.44, 13.79, -9.68
CIE LCh	93, 16.850, 324.948
Yxy	83.9668, 0.3139, 0.3029
Android (android.graphics.Color)	4294960383 (0xFFFE4FF)
YUV	239.1510, 7.8136, 13.8996
Hunter-Lab	91.6334, 9.1472, -4.5890

# Details

The Yxy color **83.9668, 0.3139, 0.3029** is a light color, and the websafe version is hex **FFCCFF**. A complement of this color would be **93.6307, 0.3115, 0.3566**, and the grayscale version is **86.3714, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **45.9701, 0.3142, 0.2982** is the 20% darker color. If you saturate the color by 10%, you get **70.9469, 0.3150, 0.2777**, and if you desaturate by 10%, it is **99.0632, 0.3128, 0.3276**.

# Distribution



- Red (100%)
- Green (89%)
- Blue (100%)



- Red (100%)
- Yellow (89%)
- Blue (100%)



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




- Cyan (0%)
- Magenta (11%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.9668, 0.3139, 0.3029 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 83.9668, 0.3139, 0.3029 by changing the saturation by 10% instead.




 83.9668, 0.3139,  
0.3029

 83.9668, 0.3139,  
0.3029


508.2030, 0.3135,  
0.3144

 62.9880, 0.3140,  
0.3004

138.9287, 0.3138,  
0.3068

 45.8315, 0.3140,  
0.2973


173.6807, 0.3137,  
0.3083

 32.1129, 0.3141,  
0.2936


213.7925, 0.3137,  
0.3097

 21.4477, 0.3142,  
0.2888

259.6485, 0.3136,  
0.3109

 13.4517, 0.3143,  
0.2825

311.6332, 0.3136,  
0.3119

 7.7403, 0.3143,  
0.2739

370.1309, 0.3135,

 3.9292, 0.3141,

0.3128

0.2615

435.5260, 0.3135,  
0.3137

■ 1.6341, 0.3134,  
0.2419

■ 0.3804, 0.3210,  
0.1749

■ 83.9668, 0.3139,  
0.3029

■ 83.9668, 0.3139,  
0.3029

■ 70.9469, 0.3150,  
0.2777

99.0632, 0.3128,  
0.3276

■ 59.9023, 0.3162,  
0.2527

99.9999, 0.3127,  
0.3290

■ 50.7399, 0.3172,  
0.2288

■ 43.3545, 0.3182,  
0.2070

■ 37.6310, 0.3190,  
0.1882

■ 33.4403, 0.3196,  
0.1733

■ 30.6347, 0.3201,  
0.1628

■ 29.0374, 0.3203,  
0.1565

■ 28.3729, 0.3204,  
0.1538

# Harmonies

## Analogous

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



83.9668, 0.2950, 0.2968



83.9668, 0.3139, 0.3029



83.9668, 0.3330, 0.3154

# Triad

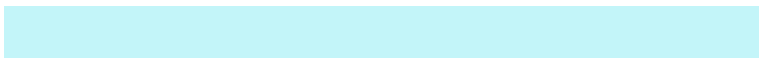
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



83.9668, 0.3139, 0.3029



83.9668, 0.3448, 0.3593



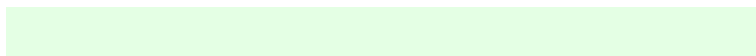
83.9668, 0.2798, 0.3249

# Complementary

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



83.9668, 0.3139, 0.3029



93.6307, 0.3115, 0.3566

# 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.



83.9668, 0.2924, 0.3429



83.9668, 0.3139, 0.3029



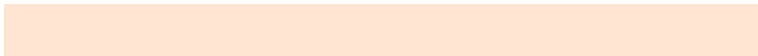
83.9668, 0.3298, 0.3632

# Square

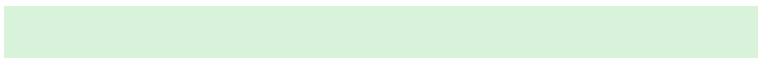
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



83.9668, 0.3139, 0.3029



83.9668, 0.3511, 0.3476



83.9668, 0.3106, 0.3572



83.9668, 0.2758, 0.3088



# Rectangle

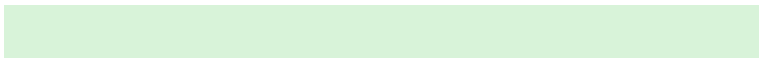
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.9668, 0.3139, 0.3029



83.9668, 0.3430, 0.3260



83.9668, 0.3106, 0.3572



83.9668, 0.2831, 0.3310

# Sweetspot

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



83.9704, 0.3139, 0.3029



95.2126, 0.3130, 0.3217



79.4681, 0.2960, 0.3019



20.1125, 0.3131, 0.3197



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.



83.9704, 0.3139, 0.3029



80.6290, 0.3142, 0.2968



83.1704, 0.3223, 0.3154



18.2982, 0.3138, 0.3056



14.8265, 0.3204, 0.1539



1.4442, 0.3204, 0.1539



# Inverse Universe

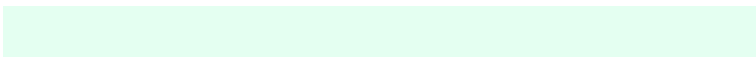
The Inverse Universe completely reimagines the original color for something new.



82.3681, 0.3315, 0.3290



78.6927, 0.3365, 0.3290



94.3726, 0.3041, 0.3431



17.9877, 0.3294, 0.3290



11.1097, 0.6398, 0.3298



1.0819, 0.6393, 0.3295



# Previews

## White Background



This preview shows how the Yxy color 83.9668, 0.3139, 0.3029 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 83.9668, 0.3139, 0.3029 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

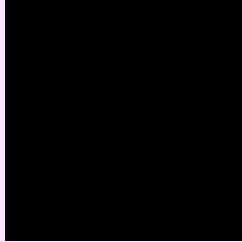
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

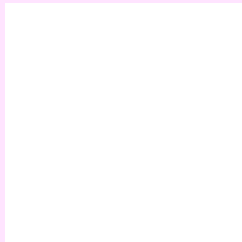
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 83.9668, 0.3139, 0.3029**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.9668, 0.3139, 0.3029.

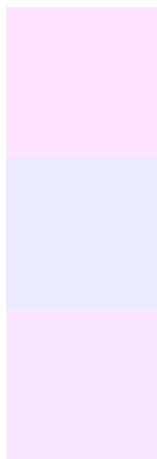


This preview shows how white text looks on a background with the Yxy color 83.9668, 0.3139, 0.3029.

# 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

83.9668, 0.3139, 0.3029

### Protanopia

84.1291, 0.2999, 0.3089

### Deuteranopia

84.3229, 0.3112, 0.3046



## Tritanopia

83.8249, 0.3183, 0.3114

# Trichromacy



## Original Color

83.9668, 0.3139, 0.3029

## Protanomaly

83.8105, 0.3051, 0.3062

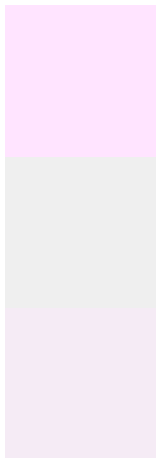
## Deuteranomaly

83.9541, 0.3119, 0.3037

## Tritanomaly

84.0116, 0.3164, 0.3086

# Monochromacy



## Original Color

83.9668, 0.3139, 0.3029

## Achromatopsia

86.3157, 0.3127, 0.3290

## Achromatomaly

85.4217, 0.3132, 0.3191

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.9668, 0.3139, 0.3029 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, 228, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 228, 255)  
}
```

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, 228, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 228, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 83.9668, 0.3139, 0.3029 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, 228, 255) }
```

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

```
.border{ border-color:rgb(255, 228, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 228, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 228, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 228, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 228,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.9668, 0.3139, 0.3029 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 228, 255) }
```

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

```
.background{ background-color: rgb(255,  
228, 255) }
```

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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