

# Converting Colors

$Y_{xy}(100.0000, 0.3036, 0.2433)$

Have a look what the booklet for  
Yxy(100.0000, 0.3036, 0.2433)  
contains.

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# Color

**Yxy(81.7913, 0.3141, 0.2989)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE0FF
RGB	255, 224, 255
RGB Percent	100%, 88%, 100%
CMY	0.0000, 0.1216, 0.0000
CMYK	0.00, 0.12, 0.00, 0.00
HSL	300°, 100%, 94%
HSV	300°, 12%, 100%
XYZ	85.9506, 81.7913, 105.8991
YIQ	236.8030, 8.5250, 16.2130

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 224, 255
Decimal	16769279
CIE <sub>Lab</sub>	92.48, 15.91, -11.12
CIE <sub>LCh</sub>	92, 19.412, 325.063
Y <sub>xy</sub>	81.7913, 0.3141, 0.2989
Android (android.graphics.Color)	4294959359 (0xFFFFE0FF)
Y <sub>UV</sub>	236.8030, 8.9711, 15.9588
Hunter-Lab	90.4385, 11.3747, -6.1187

# Details

The Yxy color **81.7913, 0.3141, 0.2989** is a light color, and the websafe version is hex **FFCCFF**. A complement of this color would be **92.7494, 0.3112, 0.3610**, and the grayscale version is **84.4533, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **44.4589, 0.3144, 0.2932** is the 20% darker color. If you saturate the color by 10%, you get **69.0977, 0.3153, 0.2737**, and if you desaturate by 10%, it is **96.5416, 0.3130, 0.3238**.

# Distribution



- Red (100%)
- Green (88%)
- Blue (100%)



- Red (100%)
- Yellow (88%)
- Blue (100%)



- Cyan (0%)
- Magenta (12%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (12%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.7913, 0.3141, 0.2989 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 81.7913, 0.3141, 0.2989 by changing the saturation by 10% instead.




 81.7913, 0.3141,  
0.2989

 81.7913, 0.3141,  
0.2989


500.9493, 0.3136,  
0.3122

 61.1935, 0.3142,  
0.2960

135.8813, 0.3140,  
0.3034

 44.3814, 0.3143,  
0.2925


170.1423, 0.3139,  
0.3052

 30.9704, 0.3143,  
0.2881


209.7265, 0.3138,  
0.3067

 20.5763, 0.3144,  
0.2826


255.0183, 0.3138,  
0.3081

 12.8147, 0.3144,  
0.2753

306.4021, 0.3137,  
0.3093

 7.3011, 0.3144,  
0.2654

364.2623, 0.3137,

 3.6511, 0.3140,

0.3104

0.2510

428.9832, 0.3137,  
0.3113

■ 1.4804, 0.3129,  
0.2284

■ 0.2748, 0.3240,  
0.1370

■ 81.7913, 0.3141,  
0.2989

■ 81.7913, 0.3141,  
0.2989

■ 69.0977, 0.3153,  
0.2737

■ 96.5416, 0.3130,  
0.3238

■ 58.3676, 0.3165,  
0.2488

100.0000, 0.3127,  
0.3290

■ 49.5037, 0.3176,  
0.2252

■ 42.3994, 0.3186,  
0.2039

■ 36.9375, 0.3194,  
0.1858

■ 32.9866, 0.3201,  
0.1716

■ 30.3952, 0.3206,  
0.1617

■ 28.9804, 0.3208,  
0.1562

■ 28.4800, 0.3209,  
0.1542

# Harmonies

## Analogous

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



81.7913, 0.2922, 0.2918



81.7913, 0.3141, 0.2989



81.7913, 0.3363, 0.3133

# Triad

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



81.7913, 0.3141, 0.2989



81.7913, 0.3499, 0.3642



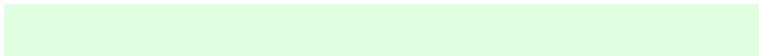
81.7913, 0.2745, 0.3240

# Complementary

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



81.7913, 0.3141, 0.2989



92.7494, 0.3112, 0.3610

# 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.



81.7913, 0.2890, 0.3452



81.7913, 0.3141, 0.2989



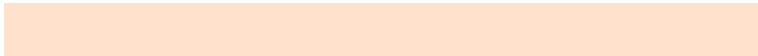
81.7913, 0.3324, 0.3689

# Square

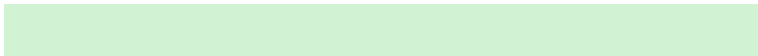
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



81.7913, 0.3141, 0.2989



81.7913, 0.3574, 0.3504



81.7913, 0.3101, 0.3620



81.7913, 0.2700, 0.3053



# Rectangle

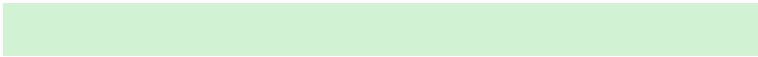
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



81.7913, 0.3141, 0.2989



81.7913, 0.3481, 0.3255



81.7913, 0.3101, 0.3620



81.7913, 0.2784, 0.3311

# Sweetspot

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



81.7920, 0.3141, 0.2989



93.6639, 0.3132, 0.3192



76.3795, 0.2933, 0.2970



19.8010, 0.3133, 0.3174



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.



81.7920, 0.3141, 0.2989



77.9769, 0.3145, 0.2918



80.8336, 0.3243, 0.3138



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Inverse Universe

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



81.7920, 0.3141, 0.2989



77.9769, 0.3145, 0.2918



93.6291, 0.3025, 0.3448



18.3004, 0.3138, 0.3056



14.8814, 0.3209, 0.1542



1.4490, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 81.7913, 0.3141, 0.2989 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

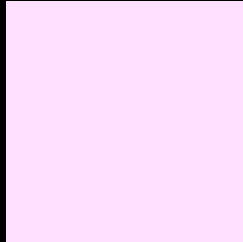
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 81.7913, 0.3141, 0.2989 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

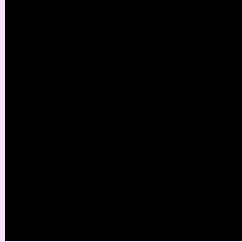
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

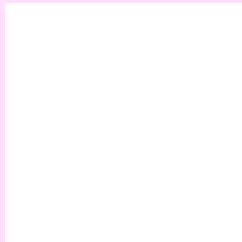
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 81.7913, 0.3141, 0.2989**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.7913, 0.3141, 0.2989.

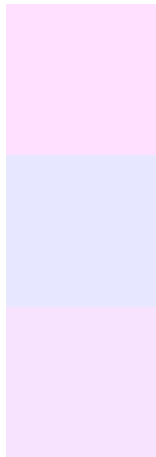


This preview shows how white text looks on a background with the Yxy color 81.7913, 0.3141, 0.2989.

# 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

81.7913, 0.3141, 0.2989

### Protanopia

81.9221, 0.2980, 0.3057

### Deuteranopia

81.8681, 0.3092, 0.3024



## Tritanopia

81.8070, 0.3198, 0.3113

# Trichromacy



## Original Color

81.7913, 0.3141, 0.2989

## Protanomaly

81.7839, 0.3039, 0.3031

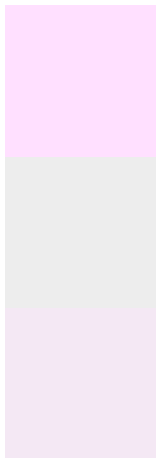
## Deuteranomaly

81.8725, 0.3113, 0.3016

## Tritanomaly

81.6986, 0.3179, 0.3065

# Monochromacy



## Original Color

81.7913, 0.3141, 0.2989

## Achromatopsia

84.6873, 0.3127, 0.3290

## Achromatomaly

83.4780, 0.3133, 0.3170

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.7913, 0.3141, 0.2989 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, 224, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 224, 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, 224, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 224, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 81.7913, 0.3141, 0.2989 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, 224, 255) }
```

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

```
.border{ border-color:rgb(255, 224, 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, 224, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 224, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 224, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 224,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.7913, 0.3141, 0.2989 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 224, 255) }
```

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

```
.background{ background-color: rgb(255,  
224, 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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