

# Converting Colors

$Y_{xy}(80.6275, 0.3087, 0.2924)$

Have a look what the booklet for  
Yxy(80.6275, 0.3087, 0.2924)  
contains.

<b>Yxy(80.1580, 0.3122, 0.2968)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(80.1580, 0.3122, 0.2968)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FCDEFF
RGB	252, 222, 255
RGB Percent	99%, 87%, 100%
CMY	0.0117, 0.1294, 0.0002
CMYK	0.01, 0.13, 0.00, 0.00
HSL	295°, 100%, 94%
HSV	295°, 13%, 100%
XYZ	84.3171, 80.1580, 105.5990
YIQ	234.7320, 7.2870, 16.6230

# Conversions

## Conversions Part 2

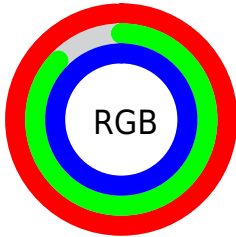
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	252, 222, 255
Decimal	16572159
CIE <sub>Lab</sub>	91.76, 15.96, -12.18
CIE <sub>LCh</sub>	92, 20.082, 322.652
Yxy	80.1580, 0.3122, 0.2968
Android (android.graphics.Color)	4294762239 (0xFFFCDEFF)
YUV	234.7320, 9.9921, 15.1440
Hunter-Lab	89.5310, 11.4258, -7.2590

# Details

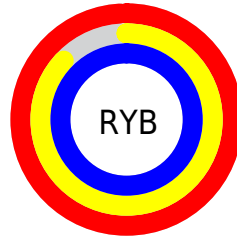
The Yxy color **80.1580, 0.3122, 0.2968** is a light color, and the websafe version is hex **FFCCFF**. A complement of this color would be **92.7641, 0.3129, 0.3630**, and the grayscale version is **82.7848, 0.3127, 0.3290**.

A 20% lighter version of the original color is **100.0000, 0.3127, 0.3290**, and **43.3168, 0.3118, 0.2904** is the 20% darker color. If you saturate the color by 10%, you get **67.2055, 0.3115, 0.2711**, and if you desaturate by 10%, it is **95.1703, 0.3126, 0.3219**.

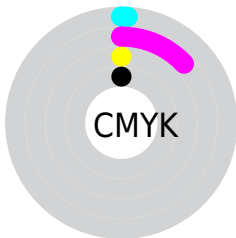
# Distribution



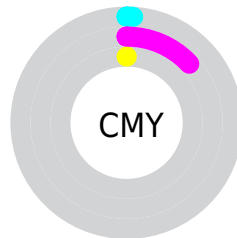
- Red (99%)
- Green (87%)
- Blue (100%)



- Red (99%)
- Yellow (87%)
- Blue (100%)



- Cyan (1%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)




- Cyan (1%)
- Magenta (13%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.1580, 0.3122, 0.2968 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 80.1580, 0.3122, 0.2968 by changing the saturation by 10% instead.



 80.1580, 0.3122,  
0.2968

 80.1580, 0.3122,  
0.2968


495.4651, 0.3126,  
0.3111

 59.8484, 0.3121,  
0.2937


133.5878, 0.3124,  
0.3016

 43.2964, 0.3119,  
0.2899

167.4769, 0.3124,  
0.3036

 30.1178, 0.3117,  
0.2852


206.6611, 0.3125,  
0.3052

 19.9280, 0.3113,  
0.2792

251.5251, 0.3125,  
0.3067

 12.3427, 0.3108,  
0.2714

302.4530, 0.3125,  
0.3080

 6.9775, 0.3100,  
0.2607

359.8294, 0.3126,

 3.4481, 0.3084,

0.3091

0.2451

424.0387, 0.3126,  
0.3101

■ 1.3699, 0.3052,  
0.2206

■ 0.1944, 0.3130,  
0.1059

■ 80.1580, 0.3122,  
0.2968

■ 80.1580, 0.3122,  
0.2968

■ 67.2055, 0.3115,  
0.2711

■ 95.1703, 0.3126,  
0.3219

■ 56.2106, 0.3106,  
0.2454

99.9973, 0.3127,  
0.3290

■ 47.0783, 0.3094,  
0.2208

■ 39.7014, 0.3079,  
0.1981

■ 33.9617, 0.3062,  
0.1785

■ 29.7266, 0.3042,  
0.1627

■ 26.8426, 0.3021,  
0.1514

■ 25.1236, 0.2998,  
0.1444

■ 24.4197, 0.2982,  
0.1416

# Harmonies

## Analogous

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



80.1580, 0.2897, 0.2901



80.1580, 0.3122, 0.2968



80.1580, 0.3356, 0.3113

# Triad

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



80.1580, 0.3122, 0.2968



80.1580, 0.3525, 0.3648



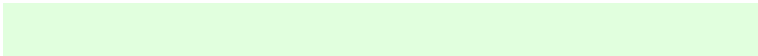
80.1580, 0.2738, 0.3255

# Complementary

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



80.1580, 0.3122, 0.2968



92.7641, 0.3129, 0.3630

# 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.



80.1580, 0.2896, 0.3475



80.1580, 0.3122, 0.2968



80.1580, 0.3350, 0.3706

# Square

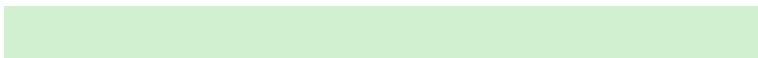
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



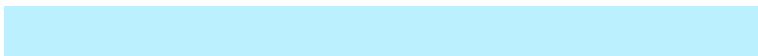
80.1580, 0.3122, 0.2968



80.1580, 0.3593, 0.3498



80.1580, 0.3119, 0.3644



80.1580, 0.2682, 0.3056



# Rectangle

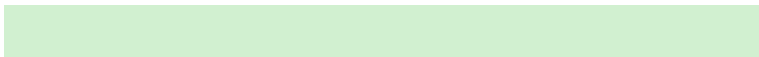
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80.1580, 0.3122, 0.2968



80.1580, 0.3483, 0.3237



80.1580, 0.3119, 0.3644



80.1580, 0.2781, 0.3330

# Sweetspot

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



80.1615, 0.3122, 0.2968



93.4922, 0.3126, 0.3192



76.7589, 0.2921, 0.2983



19.7574, 0.3126, 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.



80.1615, 0.3122, 0.2968



75.9926, 0.3120, 0.2889



79.8932, 0.3229, 0.3096



18.2134, 0.3124, 0.3055



12.7986, 0.2986, 0.1419



1.2692, 0.3013, 0.1433



# Inverse Universe

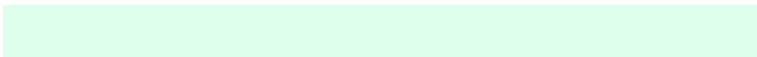
The Inverse Universe completely reimagines the original color for something new.



78.9285, 0.3344, 0.3261



74.5075, 0.3405, 0.3254



93.0319, 0.3037, 0.3493



18.0133, 0.3280, 0.3269



11.1493, 0.6304, 0.3247



1.0941, 0.6110, 0.3139



# Previews

## White Background



This preview shows how the Yxy color 80.1580, 0.3122, 0.2968 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

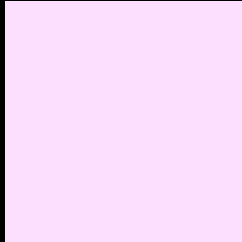
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.1580, 0.3122, 0.2968 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

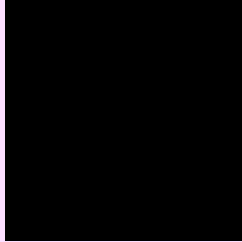
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

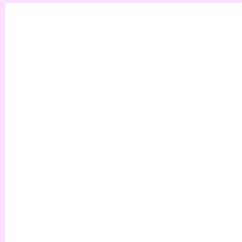
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 80.1580, 0.3122, 0.2968**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.1580, 0.3122, 0.2968.

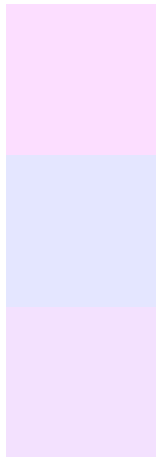


This preview shows how white text looks on a background with the Yxy color 80.1580, 0.3122, 0.2968.

# 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

80.1580, 0.3122, 0.2968

### Protanopia

80.3076, 0.2960, 0.3035

### Deuteranopia

80.0609, 0.3066, 0.3001



## Tritanopia

80.0461, 0.3191, 0.3111

# Trichromacy



## Original Color

80.1580, 0.3122, 0.2968

## Protanomaly

80.1627, 0.3019, 0.3009

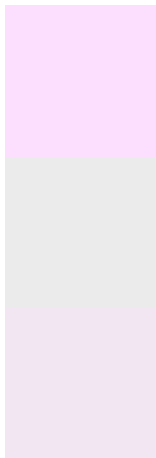
## Deuteranomaly

80.0599, 0.3086, 0.2993

## Tritanomaly

80.0000, 0.3166, 0.3053

# Monochromacy



## Original Color

80.1580, 0.3122, 0.2968

## Achromatopsia

83.0770, 0.3127, 0.3290

## Achromatomaly

81.7052, 0.3126, 0.3169

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.1580, 0.3122, 0.2968 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(252, 222, 255)` looks like.

```
.text, #text, p{  
    color:rgb(252, 222, 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(252, 222, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 222, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 80.1580, 0.3122, 0.2968 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(252, 222, 255) }
```

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

```
.border{ border-color:rgb(252, 222, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(252, 222, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 222, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 222, 255);  
box-shadow:4px 4px 4px 4px rgb(252, 222,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.1580, 0.3122, 0.2968 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 222, 255) }
```

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

```
.background{ background-color: rgb(252,  
222, 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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