

# Converting Colors

$Y_{xy}(77.8174, 0.3053, 0.2951)$

Have a look what the booklet for  
Yxy(77.8174, 0.3053, 0.2951)  
contains.

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# Color

**Yxy(77.8101, 0.3053, 0.2951)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2DDFF
RGB	242, 221, 255
RGB Percent	95%, 87%, 100%
CMY	0.0513, 0.1332, 0.0001
CMYK	0.05, 0.13, 0.00, 0.00
HSL	277°, 100%, 93%
HSV	277°, 13%, 100%
XYZ	80.4996, 77.8101, 105.3640
YIQ	231.1550, 1.6020, 15.0260

# Conversions

## Conversions Part 2

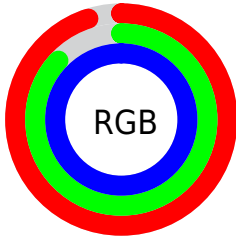
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	242, 221, 255
Decimal	15916543
CIE <sub>Lab</sub>	90.69, 13.18, -13.87
CIE <sub>LCh</sub>	91, 19.133, 313.546
Y <sub>xy</sub>	77.8101, 0.3053, 0.2951
Android (android.graphics.Color)	4294106623 (0xFFFF2DDFF)
Y <sub>UV</sub>	231.1550, 11.7556, 9.5111
Hunter-Lab	88.2100, 8.5297, -9.0729

# Details

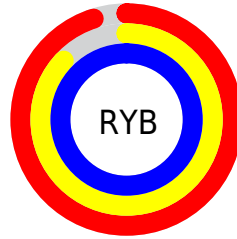
The Yxy color  $77.8101, 0.3053, 0.2951$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $94.2374, 0.3193, 0.3635$ , and the grayscale version is  $79.9371, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $41.7888, 0.3039, 0.2881$  is the 20% darker color. If you saturate the color by 10%, you get  $63.6640, 0.2986, 0.2677$ , and if you desaturate by 10%, it is  $94.1007, 0.3110, 0.3209$ .

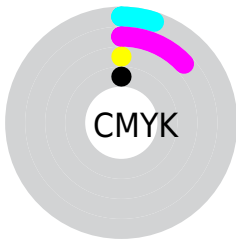
# Distribution



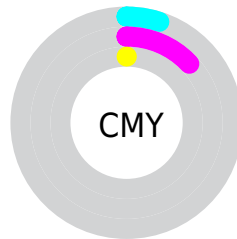
- Red (95%)
- Green (87%)
- Blue (100%)



- Red (95%)
- Yellow (87%)
- Blue (100%)



- Cyan (5%)
- Magenta (13%)
- Yellow (0%)
- Black (0%)




- Cyan (5%)
- Magenta (13%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.8101, 0.3053, 0.2951 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 77.8101, 0.3053, 0.2951 by changing the saturation by 10% instead.



 77.8101, 0.3053,  
0.2951

 77.8101, 0.3053,  
0.2951


487.5217, 0.3088,  
0.3102

 57.9180, 0.3045,  
0.2918


130.2824, 0.3065,  
0.3002

 41.7427, 0.3034,  
0.2877


163.6314, 0.3070,  
0.3023

 28.8999, 0.3021,  
0.2827


202.2347, 0.3074,  
0.3040

 19.0051, 0.3004,  
0.2763

246.4769, 0.3078,  
0.3056

 11.6740, 0.2980,  
0.2678

296.7423, 0.3081,  
0.3069

 6.5221, 0.2945,  
0.2562

353.4153, 0.3084,

 3.1651, 0.2890,

0.3082

0.2391

416.8803, 0.3086,  
0.3092

■ 1.2185, 0.2791,  
0.2121

■ 0.0767, 0.2584,  
0.0502

■ 77.8101, 0.3053,  
0.2951

■ 77.8101, 0.3053,  
0.2951

■ 63.6640, 0.2986,  
0.2677

■ 94.1007, 0.3110,  
0.3209

■ 51.5592, 0.2908,  
0.2393

99.9986, 0.3127,  
0.3290

■ 41.3986, 0.2820,  
0.2107

■ 33.0729, 0.2723,  
0.1831

■ 26.4622, 0.2620,  
0.1577

■ 21.4314, 0.2514,  
0.1359

■ 17.8245, 0.2410,  
0.1187

■ 15.4519, 0.2311,  
0.1068

■ 14.3721, 0.2248,  
0.1012

# Harmonies

## Analogous

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



77.8101, 0.2851, 0.2914



77.8101, 0.3053, 0.2951



77.8101, 0.3282, 0.3071

# Triad

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



77.8101, 0.3053, 0.2951



77.8101, 0.3543, 0.3599



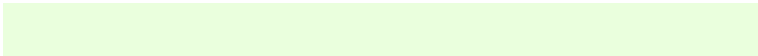
77.8101, 0.2790, 0.3322

# Complementary

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



77.8101, 0.3053, 0.2951



94.2374, 0.3193, 0.3635

# Split Complementary

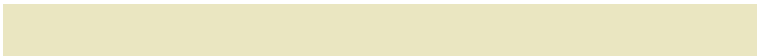
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



77.8101, 0.2965, 0.3525



77.8101, 0.3053, 0.2951



77.8101, 0.3401, 0.3685

# Square

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



77.8101, 0.3053, 0.2951



77.8101, 0.3570, 0.3436



77.8101, 0.3189, 0.3661



77.8101, 0.2704, 0.3118



# Rectangle

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



77.8101, 0.3053, 0.2951



77.8101, 0.3418, 0.3183



77.8101, 0.3189, 0.3661



77.8101, 0.2840, 0.3393

# Sweetspot

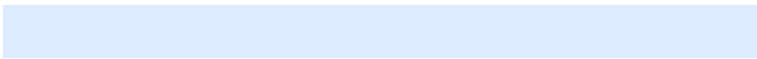
The Sweet Spot groups the original color and five complimentary colors.



77.8134, 0.3053, 0.2951



92.9270, 0.3107, 0.3192



81.7920, 0.2917, 0.3080



19.6140, 0.3103, 0.3173



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.



77.8134, 0.3053, 0.2951



73.8172, 0.3036, 0.2879



79.9901, 0.3165, 0.2992



17.9309, 0.3076, 0.3051



7.5998, 0.2263, 0.1021



0.8029, 0.2369, 0.1079



# Inverse Universe

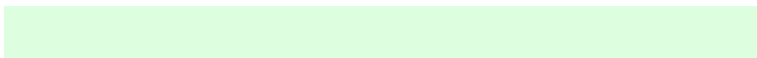
The Inverse Universe completely reimagines the original color for something new.



78.9344, 0.3282, 0.3161



75.1620, 0.3319, 0.3133



92.2891, 0.3091, 0.3607



18.1028, 0.3233, 0.3199



11.5978, 0.5446, 0.2774

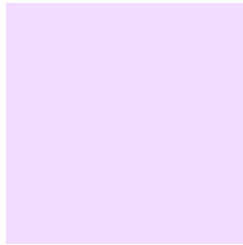


1.1498, 0.5139, 0.2605



# Previews

## White Background



This preview shows how the Yxy color 77.8101, 0.3053, 0.2951 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

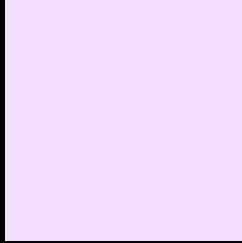
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.8101, 0.3053, 0.2951 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

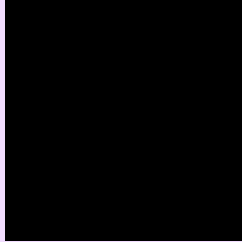
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

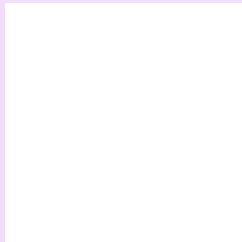
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.8101, 0.3053, 0.2951**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.8101, 0.3053, 0.2951.

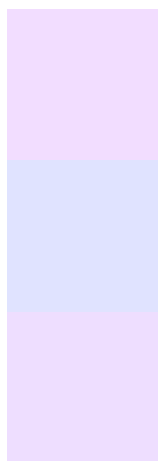


This preview shows how white text looks on a background with the Yxy color 77.8101, 0.3053, 0.2951.

# 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

77.8101, 0.3053, 0.2951

### Protanopia

78.0055, 0.2934, 0.3001

### Deuteranopia

77.6397, 0.3026, 0.2958



## Tritanopia

77.6515, 0.3129, 0.3107

# Trichromacy



## Original Color

77.8101, 0.3053, 0.2951

## Protanomaly

78.0594, 0.2979, 0.2984

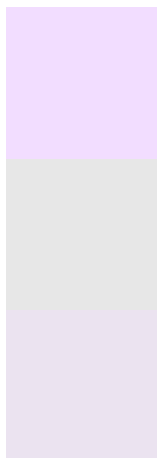
## Deuteranomaly

77.8133, 0.3033, 0.2959

## Tritanomaly

77.5971, 0.3104, 0.3047

# Monochromacy



## Original Color

77.8101, 0.3053, 0.2951

## Achromatopsia

79.9103, 0.3127, 0.3290

## Achromatomaly

78.8916, 0.3099, 0.3157

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.8101, 0.3053, 0.2951 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(242, 221, 255)` looks like.

```
.text, #text, p{  
    color:rgb(242, 221, 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(242, 221, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 221, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 77.8101, 0.3053, 0.2951 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(242, 221, 255) }
```

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

```
.border{ border-color:rgb(242, 221, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 221, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 221, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 221, 255);  
box-shadow:4px 4px 4px 4px rgb(242, 221,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.8101, 0.3053, 0.2951 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 221, 255) }
```

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

```
.background{ background-color: rgb(242,  
221, 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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