

# Converting Colors

$Y_{xy}(75.9804, 0.2320, 0.1768)$

Have a look what the booklet for  
Yxy(75.9804, 0.2320, 0.1768)  
contains.

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# Color

**Yxy(64.5971, 0.2978, 0.2701)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E7C6FF
RGB	231, 198, 255
RGB Percent	91%, 78%, 100%
CMY	0.0938, 0.2236, 0.0000
CMYK	0.09, 0.22, 0.00, 0.00
HSL	275°, 100%, 89%
HSV	275°, 22%, 100%
XYZ	71.2218, 64.5971, 103.3410
YIQ	214.3650, 1.3710, 24.7230

# Conversions

## Conversions Part 2

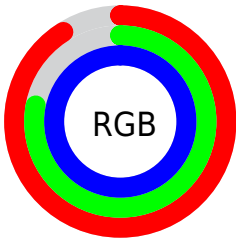
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	231, 198, 255
Decimal	15189759
CIE Lab	84.28, 21.92, -23.66
CIE LCh	84, 32.254, 312.819
Yxy	64.5971, 0.2978, 0.2701
Android (android.graphics.Color)	4293379839 (0xFFE7C6FF)
YUV	214.3650, 20.0331, 14.5889
Hunter-Lab	80.3723, 17.5260, -19.9732

# Details

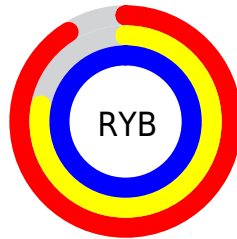
The Yxy color  $64.5971, 0.2978, 0.2701$  is a light color, and the websafe version is hex `FFCCFF`. A complement of this color would be  $91.1076, 0.3248, 0.3891$ , and the grayscale version is  $67.3710, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $33.1377, 0.2938, 0.2573$  is the 20% darker color. If you saturate the color by 10%, you get  $52.1818, 0.2894, 0.2415$ , and if you desaturate by 10%, it is  $79.0859, 0.3052, 0.2976$ .

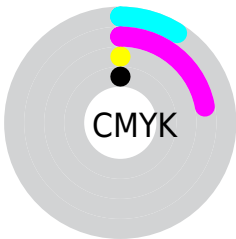
# Distribution



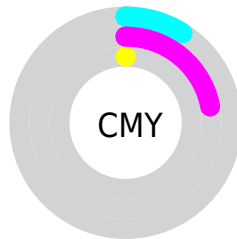
- Red (91%)
- Green (78%)
- Blue (100%)



- Red (91%)
- Yellow (78%)
- Blue (100%)



- Cyan (9%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)



- Cyan (9%)
- Magenta (22%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.5971, 0.2978, 0.2701 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 64.5971, 0.2978, 0.2701 by changing the saturation by 10% instead.



64.5971, 0.2978,  
0.2701

64.5971, 0.2978,  
0.2701

441.3427, 0.3052,  
0.2967

47.1345, 0.2960,  
0.2642

111.4704, 0.3005,  
0.2792

33.1420, 0.2937,  
0.2570

141.6499, 0.3015,  
0.2828

22.2352, 0.2907,  
0.2481

176.8371, 0.3023,  
0.2859

14.0298, 0.2867,  
0.2366

217.4164, 0.3031,  
0.2886

8.1414, 0.2811,  
0.2215

263.7722, 0.3037,  
0.2910

4.1856, 0.2726,  
0.2007

316.2889, 0.3043,

1.7779, 0.2586,

0.2931

0.1708

375.3510, 0.3048,  
0.2950

0.4733, 0.2361,  
0.1125

0.0000, 0.0000,  
0.0000

64.5971, 0.2978,  
0.2701

64.5971, 0.2978,  
0.2701

52.1818, 0.2894,  
0.2415

79.0859, 0.3052,  
0.2976

41.7360, 0.2798,  
0.2124

95.7376, 0.3114,  
0.3232

33.1525, 0.2693,  
0.1841

100.0000, 0.3127,  
0.3290

26.3116, 0.2581,  
0.1578

■ 21.0794, 0.2466,  
0.1349

■ 17.3019, 0.2354,  
0.1167

■ 14.7929, 0.2247,  
0.1037

■ 13.5220, 0.2171,  
0.0970

# Harmonies

## Analogous

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



64.5971, 0.2630, 0.2634



64.5971, 0.2978, 0.2701



64.5971, 0.3390, 0.2901

# Triad

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



64.5971, 0.2978, 0.2701



64.5971, 0.3875, 0.3818



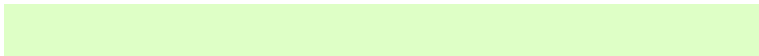
64.5971, 0.2536, 0.3347

# Complementary

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



64.5971, 0.2978, 0.2701



91.1076, 0.3248, 0.3891

# 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.



64.5971, 0.2841, 0.3731



64.5971, 0.2978, 0.2701



64.5971, 0.3616, 0.4000

# Square

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



64.5971, 0.2978, 0.2701



64.5971, 0.3927, 0.3521



64.5971, 0.3235, 0.3979



64.5971, 0.2389, 0.2976



# Rectangle

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



64.5971, 0.2978, 0.2701



64.5971, 0.3641, 0.3088



64.5971, 0.3235, 0.3979



64.5971, 0.2623, 0.3481

# Sweetspot

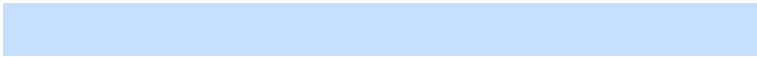
The Sweet Spot groups the original color and five complimentary colors.



64.5983, 0.2978, 0.2701



87.7431, 0.3086, 0.3116



71.8285, 0.2768, 0.2939



18.5654, 0.3083, 0.3100



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.



64.5983, 0.2978, 0.2701



58.5905, 0.2940, 0.2570



68.6128, 0.3180, 0.2767



17.8987, 0.3070, 0.3051



7.1553, 0.2187, 0.0979



0.7609, 0.2299, 0.1040



# Inverse Universe

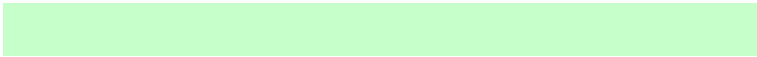
The Inverse Universe completely reimagines the original color for something new.



66.9031, 0.3398, 0.3048



61.3485, 0.3471, 0.2995



87.7755, 0.3077, 0.3876



18.1135, 0.3228, 0.3191



11.6910, 0.5304, 0.2696



1.1595, 0.5010, 0.2534



# Previews

## White Background



This preview shows how the Yxy color 64.5971, 0.2978, 0.2701 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

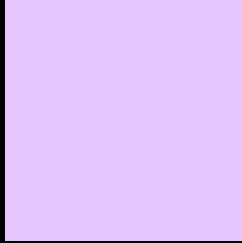
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.5971, 0.2978, 0.2701 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 64.5971, 0.2978, 0.2701**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.5971, 0.2978, 0.2701.

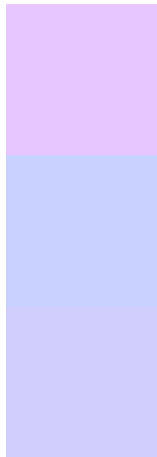


This preview shows how white text looks on a background with the Yxy color 64.5971, 0.2978, 0.2701.

# 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

64.5971, 0.2978, 0.2701

### Protanopia

65.1003, 0.2769, 0.2788

### Deuteranopia

64.7898, 0.2839, 0.2783



## Tritanopia

64.5218, 0.3181, 0.3116

# Trichromacy



## Original Color

64.5971, 0.2978, 0.2701

## Protanomaly

64.7315, 0.2839, 0.2754

## Deuteranomaly

64.6193, 0.2886, 0.2748

## Tritanomaly

64.6182, 0.3105, 0.2958

# Monochromacy



## Original Color

64.5971, 0.2978, 0.2701

## Achromatopsia

67.2443, 0.3127, 0.3290

## Achromatomaly

65.9845, 0.3072, 0.3061

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.5971, 0.2978, 0.2701 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(231, 198, 255)` looks like.

```
.text, #text, p{  
    color:rgb(231, 198, 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(231, 198, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 198, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.5971, 0.2978, 0.2701 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(231, 198, 255) }
```

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

```
.border{ border-color:rgb(231, 198, 255) }
```

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

Here you see how a box with a 4 pixel rgb(231, 198, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 198, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 198, 255);  
box-shadow:4px 4px 4px 4px rgb(231, 198,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.5971, 0.2978, 0.2701 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 198, 255) }
```

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

```
.background{ background-color: rgb(231,  
198, 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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