

# Converting Colors

$Y_{xy}(78.4345, 0.2966, 0.2997)$

Have a look what the booklet for  
Yxy(78.4345, 0.2966, 0.2997)  
contains.

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# Color

**Yxy(78.2707, 0.2966, 0.2994)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E5E2FF
RGB	229, 226, 255
RGB Percent	90%, 89%, 100%
CMY	0.1023, 0.1136, 0.0001
CMYK	0.10, 0.11, 0.00, 0.00
HSL	246°, 100%, 94%
HSV	246°, 11%, 100%
XYZ	77.5387, 78.2707, 105.6158
YIQ	230.2030, -7.5210, 9.6550

# Conversions

## Conversions Part 2

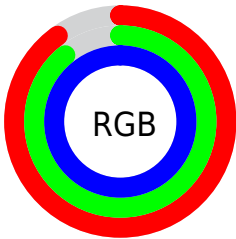
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	229, 226, 255
Decimal	15065855
CIE Lab	90.90, 6.40, -13.66
CIE LCh	91, 15.089, 295.111
Yxy	78.2707, 0.2966, 0.2994
Android (android.graphics.Color)	4293255935 (0xFFE5E2FF)
YUV	230.2030, 12.2249, -1.0550
Hunter-Lab	88.4707, 1.6196, -8.8505

# Details

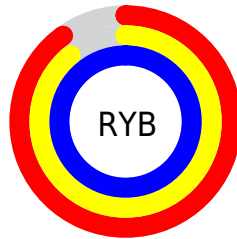
The Yxy color  $78.2707, 0.2966, 0.2994$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $97.7168, 0.3279, 0.3573$ , and the grayscale version is  $79.1949, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $42.0873, 0.2928, 0.2935$  is the 20% darker color. If you saturate the color by 10%, you get  $61.8924, 0.2803, 0.2699$ , and if you desaturate by 10%, it is  $97.2169, 0.3109, 0.3257$ .

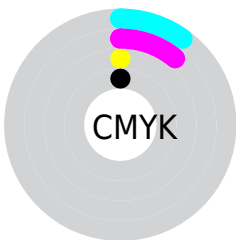
# Distribution



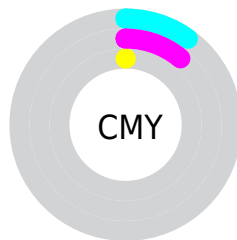
- Red (90%)
- Green (89%)
- Blue (100%)



- Red (90%)
- Yellow (89%)
- Blue (100%)



- Cyan (10%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (10%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.2707, 0.2966, 0.2994 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 78.2707, 0.2966, 0.2994 by changing the saturation by 10% instead.



78.2707, 0.2966,  
0.2994

78.2707, 0.2966,  
0.2994

489.0857, 0.3040,  
0.3127

58.2964, 0.2949,  
0.2964

130.9317, 0.2992,  
0.3039

42.0470, 0.2929,  
0.2928

164.3871, 0.3002,  
0.3057

29.1381, 0.2903,  
0.2884

203.1050, 0.3010,  
0.3073

19.1853, 0.2869,  
0.2826

247.4698, 0.3018,  
0.3086

11.8042, 0.2823,  
0.2750

297.8658, 0.3024,  
0.3098

6.6105, 0.2759,  
0.2643

354.6776, 0.3030,

3.2197, 0.2660,

0.3109

0.2487

418.2894, 0.3035,  
0.3119

■ 1.2475, 0.2493,  
0.2233

■ 0.1000, 0.1771,  
0.0705

■ 78.2707, 0.2966,  
0.2994

■ 78.2707, 0.2966,  
0.2994

■ 61.8924, 0.2803,  
0.2699

■ 97.2169, 0.3109,  
0.3257

■ 47.9618, 0.2620,  
0.2375

99.9991, 0.3127,  
0.3290

■ 36.3643, 0.2423,  
0.2031

■ 26.9717, 0.2218,  
0.1681

■ 19.6439, 0.2017,  
0.1346

■ 14.2243, 0.1834,  
0.1053

■ 10.5340, 0.1685,  
0.0826

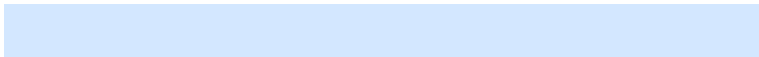
■ 8.3594, 0.1580,  
0.0680

■ 7.4318, 0.1526,  
0.0614

# Harmonies

## Analogous

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



78.2707, 0.2839, 0.3012



78.2707, 0.2966, 0.2994



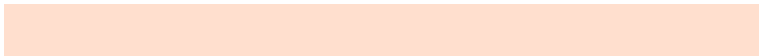
78.2707, 0.3139, 0.3050

# Triad

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



78.2707, 0.2966, 0.2994



78.2707, 0.3479, 0.3462



78.2707, 0.2940, 0.3417

# Complementary

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



78.2707, 0.2966, 0.2994



97.7168, 0.3279, 0.3573

# Split Complementary

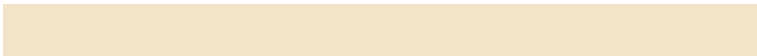
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



78.2707, 0.3107, 0.3548



78.2707, 0.2966, 0.2994



78.2707, 0.3421, 0.3569

# Square

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



78.2707, 0.2966, 0.2994



78.2707, 0.3439, 0.3315



78.2707, 0.3284, 0.3603



78.2707, 0.2824, 0.3252



# Rectangle

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



78.2707, 0.2966, 0.2994



78.2707, 0.3259, 0.3122



78.2707, 0.3284, 0.3603



78.2707, 0.2992, 0.3467

# Sweetspot

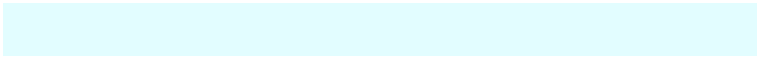
The Sweet Spot groups the original color and five complimentary colors.



78.2740, 0.2966, 0.2994



93.9331, 0.3087, 0.3216



93.3742, 0.2952, 0.3265



19.7672, 0.3076, 0.3196



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.



78.2740, 0.2966, 0.2994



73.7064, 0.2925, 0.2919



80.6693, 0.3059, 0.3002



17.4645, 0.2994, 0.3045



3.9121, 0.1533, 0.0618



0.4084, 0.1598, 0.0654



# Inverse Universe

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



82.7011, 0.3159, 0.3037



79.0722, 0.3167, 0.2976



95.1975, 0.3189, 0.3581



18.2673, 0.3153, 0.3079



14.0931, 0.3478, 0.1690



1.3809, 0.3444, 0.1671



# Previews

## White Background



This preview shows how the Yxy color 78.2707, 0.2966, 0.2994 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

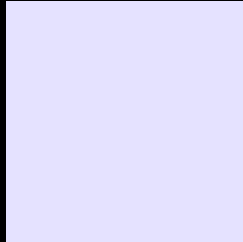
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.2707, 0.2966, 0.2994 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

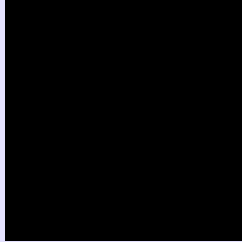
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 78.2707, 0.2966, 0.2994**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.2707, 0.2966, 0.2994.



This preview shows how white text looks on a background with the Yxy color 78.2707, 0.2966, 0.2994.

# 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

78.2707, 0.2966, 0.2994

### Protanopia

78.1657, 0.2941, 0.3002

### Deuteranopia

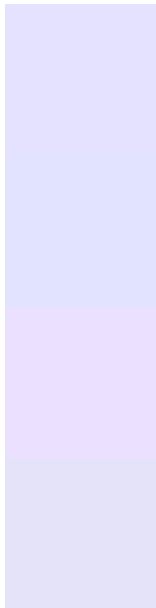
78.1725, 0.3026, 0.2968



## Tritanopia

78.4715, 0.3008, 0.3103

# Trichromacy



## Original Color

78.2707, 0.2966, 0.2994

## Protanomaly

78.3269, 0.2947, 0.3002

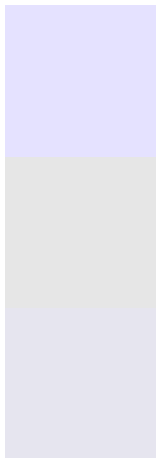
## Deuteranomaly

78.1935, 0.3006, 0.2977

## Tritanomaly

78.2717, 0.2996, 0.3063

# Monochromacy



## Original Color

78.2707, 0.2966, 0.2994

## Achromatopsia

79.1298, 0.3127, 0.3290

## Achromatomaly

79.0936, 0.3071, 0.3186

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.2707, 0.2966, 0.2994 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(229, 226, 255)` looks like.

```
.text, #text, p{  
    color:rgb(229, 226, 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(229, 226, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 226, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 78.2707, 0.2966, 0.2994 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(229, 226, 255) }
```

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

```
.border{ border-color:rgb(229, 226, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 226, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 226, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 226, 255);  
box-shadow:4px 4px 4px 4px rgb(229, 226,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.2707, 0.2966, 0.2994 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 226, 255) }
```

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

```
.background{ background-color: rgb(229,  
226, 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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