

# Converting Colors

$Y_{xy}(77.1009, 0.2954, 0.2976)$

Have a look what the booklet for  
Yxy(77.1009, 0.2954, 0.2976)  
contains.

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# Color

**Yxy(76.8622, 0.2953, 0.2972)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E3E0FF
RGB	227, 224, 255
RGB Percent	89%, 88%, 100%
CMY	0.1099, 0.1215, 0.0001
CMYK	0.11, 0.12, 0.00, 0.00
HSL	246°, 100%, 94%
HSV	246°, 12%, 100%
XYZ	76.3708, 76.8622, 105.3881
YIQ	228.4310, -8.1630, 10.2770

# Conversions

## Conversions Part 2

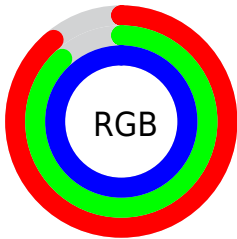
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	227, 224, 255
Decimal	14934271
CIE Lab	90.26, 6.83, -14.63
CIE LCh	90, 16.147, 295.010
Yxy	76.8622, 0.2953, 0.2972
Android (android.graphics.Color)	4293124351 (0xFFE3E0FF)
YUV	228.4310, 13.0985, -1.2550
Hunter-Lab	87.6711, 2.0680, -9.9019

# Details

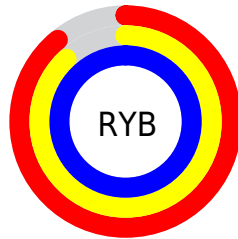
The Yxy color  $76.8622, 0.2953, 0.2972$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $97.5804, 0.3290, 0.3593$ , and the grayscale version is  $77.8193, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $41.1111, 0.2910, 0.2906$  is the 20% darker color. If you saturate the color by 10%, you get  $60.6684, 0.2787, 0.2674$ , and if you desaturate by 10%, it is  $95.6200, 0.3099, 0.3238$ .

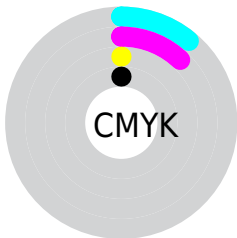
# Distribution



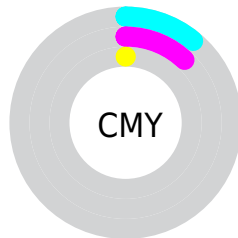
- Red (89%)
- Green (88%)
- Blue (100%)



- Red (89%)
- Yellow (88%)
- Blue (100%)



- Cyan (11%)
- Magenta (12%)
- Yellow (0%)
- Black (0%)



- Cyan (11%)
- Magenta (12%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.8622, 0.2953, 0.2972 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 76.8622, 0.2953, 0.2972 by changing the saturation by 10% instead.



76.8622, 0.2953,  
0.2972

76.8622, 0.2953,  
0.2972

484.2941, 0.3033,  
0.3115

57.1398, 0.2935,  
0.2940

128.9449, 0.2981,  
0.3021

41.1175, 0.2912,  
0.2901

162.0741, 0.2992,  
0.3040

28.4109, 0.2884,  
0.2853

200.4409, 0.3001,  
0.3057

18.6356, 0.2847,  
0.2791

244.4298, 0.3009,  
0.3072

11.4073, 0.2797,  
0.2708

294.4251, 0.3016,  
0.3084

6.3415, 0.2727,  
0.2593

350.8114, 0.3023,

3.0538, 0.2618,

0.3096

0.2423

413.9729, 0.3028,  
0.3106

■ 1.1599, 0.2434,  
0.2148

■ 0.0286, 0.1515,  
0.0223

■ 76.8622, 0.2953,  
0.2972

■ 76.8622, 0.2953,  
0.2972

■ 60.6684, 0.2787,  
0.2674

■ 95.6200, 0.3099,  
0.3238

■ 46.9179, 0.2603,  
0.2348

99.9978, 0.3127,  
0.3290

■ 35.4948, 0.2404,  
0.2002

■ 26.2698, 0.2198,  
0.1652

■ 19.1013, 0.1997,  
0.1320

■ 13.8307, 0.1817,  
0.1031

■ 10.2763, 0.1671,  
0.0810

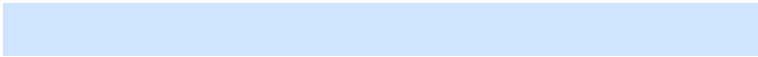
■ 8.2205, 0.1571,  
0.0670

■ 7.4151, 0.1524,  
0.0613

# Harmonies

## Analogous

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



76.8622, 0.2817, 0.2991



76.8622, 0.2953, 0.2972



76.8622, 0.3139, 0.3032

# Triad

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



76.8622, 0.2953, 0.2972



76.8622, 0.3506, 0.3474



76.8622, 0.2926, 0.3427

# Complementary

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



76.8622, 0.2953, 0.2972



97.5804, 0.3290, 0.3593

# 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.



76.8622, 0.3106, 0.3568



76.8622, 0.2953, 0.2972



76.8622, 0.3443, 0.3590

# Square

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



76.8622, 0.2953, 0.2972



76.8622, 0.3463, 0.3316



76.8622, 0.3296, 0.3627



76.8622, 0.2802, 0.3250



# Rectangle

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



76.8622, 0.2953, 0.2972



76.8622, 0.3268, 0.3110



76.8622, 0.3296, 0.3627



76.8622, 0.2982, 0.3481

# Sweetspot

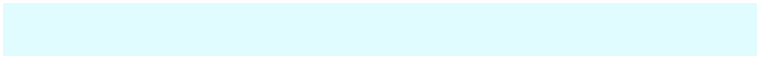
The Sweet Spot groups the original color and five complimentary colors.



76.8654, 0.2953, 0.2972



91.9552, 0.3073, 0.3191



92.9324, 0.2940, 0.3264



19.3685, 0.3062, 0.3171



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.



76.8654, 0.2953, 0.2972



71.9933, 0.2908, 0.2890



79.4302, 0.3054, 0.2982



17.4604, 0.2993, 0.3045



3.9031, 0.1531, 0.0617



0.4065, 0.1593, 0.0651



# Inverse Universe

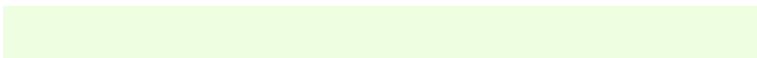
The Inverse Universe completely reimagines the original color for something new.



81.6056, 0.3160, 0.3018



77.7447, 0.3169, 0.2952



94.8707, 0.3193, 0.3602



18.2688, 0.3153, 0.3078



14.1281, 0.3465, 0.1682



1.3839, 0.3432, 0.1664



# Previews

## White Background



This preview shows how the Yxy color 76.8622, 0.2953, 0.2972 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

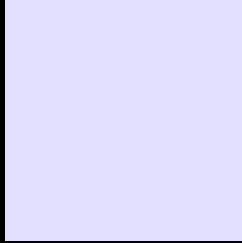
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 76.8622, 0.2953, 0.2972 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

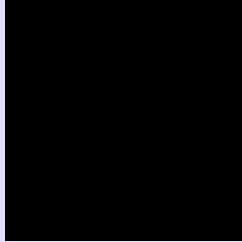
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 76.8622, 0.2953, 0.2972**

## Background



This preview shows how black text looks on a background with the Yxy color 76.8622, 0.2953, 0.2972.

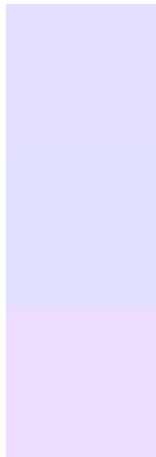


This preview shows how white text looks on a background with the Yxy color 76.8622, 0.2953, 0.2972.

# 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

76.8622, 0.2953, 0.2972

### Protanopia

76.7584, 0.2927, 0.2980

### Deuteranopia

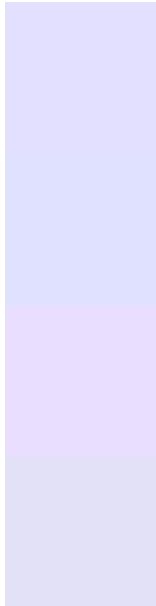
76.7658, 0.3013, 0.2946



## Tritanopia

76.9319, 0.3007, 0.3102

# Trichromacy



## Original Color

76.8622, 0.2953, 0.2972

## Protanomaly

76.9177, 0.2934, 0.2980

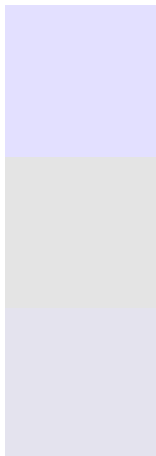
## Deuteranomaly

76.7862, 0.2993, 0.2955

## Tritanomaly

76.7965, 0.2989, 0.3051

# Monochromacy



## Original Color

76.8622, 0.2953, 0.2972

## Achromatopsia

77.5822, 0.3127, 0.3290

## Achromatomaly

77.6052, 0.3064, 0.3175

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  76.8622, 0.2953, 0.2972 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(227, 224, 255)` looks like.

```
.text, #text, p{  
    color:rgb(227, 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(227, 224, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 224, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 76.8622, 0.2953, 0.2972 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(227, 224, 255) }
```

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

```
.border{ border-color:rgb(227, 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(227, 224, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 224, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 224, 255);  
box-shadow:4px 4px 4px 4px rgb(227, 224,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 76.8622, 0.2953, 0.2972 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 224, 255) }
```

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

```
.background{ background-color: rgb(227,  
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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