

# Converting Colors

$Y_{xy}(65.4272, 0.2805, 0.2567)$

Have a look what the booklet for  
Yxy(65.4272, 0.2805, 0.2567)  
contains.

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# Color

**Yxy(64.3654, 0.2907, 0.2721)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDC9FF
RGB	221, 201, 255
RGB Percent	87%, 79%, 100%
CMY	0.1332, 0.2118, 0.0000
CMYK	0.13, 0.21, 0.00, 0.00
HSL	262°, 100%, 89%
HSV	262°, 21%, 100%
XYZ	68.7652, 64.3654, 103.4199
YIQ	213.1360, -5.4140, 21.0340

# Conversions

## Conversions Part 2

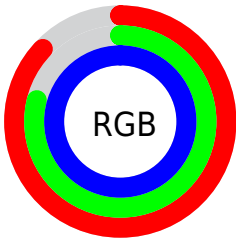
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	221, 201, 255
Decimal	14535167
CIE Lab	84.16, 17.16, -23.92
CIE LCh	84, 29.433, 305.656
Yxy	64.3654, 0.2907, 0.2721
Android (android.graphics.Color)	4292725247 (0xFFDDC9FF)
YUV	213.1360, 20.6390, 6.8967
Hunter-Lab	80.2280, 12.5972, -20.2696

# Details

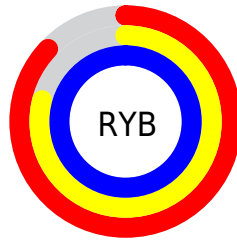
The Yxy color  $64.3654, 0.2907, 0.2721$  is a light color, and the websafe version is hex `CCCCFF`. A complement of this color would be  $93.3909, 0.3315, 0.3844$ , and the grayscale version is  $66.5006, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $100.0000, 0.3127, 0.3290$ , and  $33.0516, 0.2856, 0.2596$  is the 20% darker color. If you saturate the color by 10%, you get  $51.0508, 0.2779, 0.2419$ , and if you desaturate by 10%, it is  $79.8971, 0.3020, 0.3003$ .

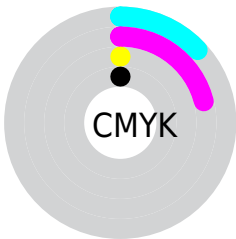
# Distribution



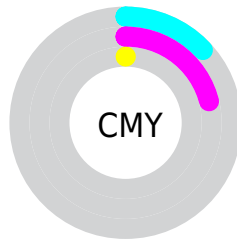
- Red (87%)
- Green (79%)
- Blue (100%)



- Red (87%)
- Yellow (79%)
- Blue (100%)



- Cyan (13%)
- Magenta (21%)
- Yellow (0%)
- Black (0%)



- Cyan (13%)
- Magenta (21%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.3654, 0.2907, 0.2721 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 64.3654, 0.2907, 0.2721 by changing the saturation by 10% instead.



64.3654, 0.2907,  
0.2721

64.3654, 0.2907,  
0.2721

440.5080, 0.3013,  
0.2979

46.9467, 0.2882,  
0.2663

111.1370, 0.2945,  
0.2810

32.9935, 0.2850,  
0.2593

141.2587, 0.2959,  
0.2844

22.1215, 0.2809,  
0.2505

176.3835, 0.2972,  
0.2874

13.9462, 0.2755,  
0.2392

216.8958, 0.2982,  
0.2901

8.0832, 0.2680,  
0.2242

263.1800, 0.2992,  
0.2924

4.1483, 0.2568,  
0.2035

315.6205, 0.3000,

1.7568, 0.2391,

0.2945

0.1734

374.6017, 0.3007,  
0.2963

0.4601, 0.2107,  
0.1132

0.0000, 0.0000,  
0.0000

64.3654, 0.2907,  
0.2721

64.3654, 0.2907,  
0.2721

51.0508, 0.2779,  
0.2419

79.8971, 0.3020,  
0.3003

39.8443, 0.2636,  
0.2103

97.7380, 0.3117,  
0.3261

30.6351, 0.2481,  
0.1787

100.0000, 0.3127,  
0.3290

23.2996, 0.2320,  
0.1485

■ 17.7004, 0.2160,  
0.1217

■ 13.6800, 0.2010,  
0.0998

■ 11.0507, 0.1878,  
0.0843

■ 9.6340, 0.1781,  
0.0755

# Harmonies

## Analogous

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



64.3654, 0.2613, 0.2694



64.3654, 0.2907, 0.2721



64.3654, 0.3278, 0.2879

# Triad

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



64.3654, 0.2907, 0.2721



64.3654, 0.3841, 0.3719



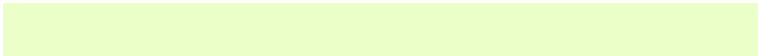
64.3654, 0.2641, 0.3431

# Complementary

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



64.3654, 0.2907, 0.2721



93.3909, 0.3315, 0.3844

# 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.



64.3654, 0.2949, 0.3761



64.3654, 0.2907, 0.2721



64.3654, 0.3646, 0.3914

# Square

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



64.3654, 0.2907, 0.2721



64.3654, 0.3836, 0.3433



64.3654, 0.3316, 0.3940



64.3654, 0.2467, 0.3079



# Rectangle

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



64.3654, 0.2907, 0.2721



64.3654, 0.3520, 0.3040



64.3654, 0.3316, 0.3940



64.3654, 0.2732, 0.3550

# Sweetspot

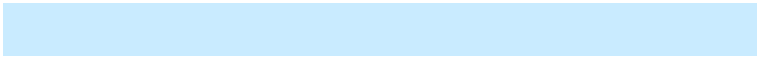
The Sweet Spot groups the original color and five complimentary colors.



64.3670, 0.2907, 0.2721



88.8444, 0.3072, 0.3140



79.1656, 0.2796, 0.3078



18.7675, 0.3065, 0.3123



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.



64.3670, 0.2907, 0.2721



59.0245, 0.2860, 0.2608



68.9087, 0.3099, 0.2753



17.7061, 0.3037, 0.3048



5.1116, 0.1797, 0.0764



0.5574, 0.1922, 0.0832



# Inverse Universe

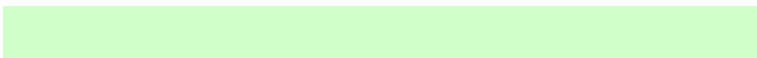
The Inverse Universe completely reimagines the original color for something new.



69.0245, 0.3296, 0.2950



64.4194, 0.3333, 0.2886



89.1744, 0.3144, 0.3874



18.1793, 0.3195, 0.3142



12.4713, 0.4427, 0.2212

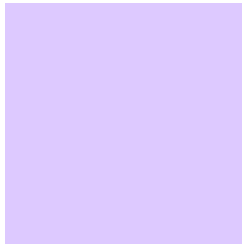


1.2354, 0.4250, 0.2115



# Previews

## White Background



This preview shows how the Yxy color 64.3654, 0.2907, 0.2721 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

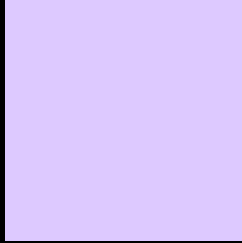
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.3654, 0.2907, 0.2721 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

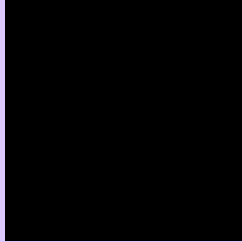
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 64.3654, 0.2907, 0.2721**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.3654, 0.2907, 0.2721.

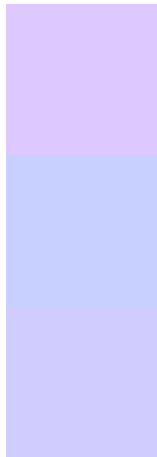


This preview shows how white text looks on a background with the Yxy color 64.3654, 0.2907, 0.2721.

# 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

64.3654, 0.2907, 0.2721

### Protanopia

64.4739, 0.2762, 0.2775

### Deuteranopia

64.2283, 0.2825, 0.2761



## Tritanopia

64.5523, 0.3083, 0.3112

# Trichromacy



## Original Color

64.3654, 0.2907, 0.2721

## Protanomaly

64.1480, 0.2812, 0.2750

## Deuteranomaly

64.4876, 0.2859, 0.2755

## Tritanomaly

64.5662, 0.3017, 0.2963

# Monochromacy



## Original Color

64.3654, 0.2907, 0.2721

## Achromatopsia

66.5387, 0.3127, 0.3290

## Achromatomaly

65.8013, 0.3049, 0.3081

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.3654, 0.2907, 0.2721 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(221, 201, 255)` looks like.

```
.text, #text, p{  
    color:rgb(221, 201, 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(221, 201, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 201, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 64.3654, 0.2907, 0.2721 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(221, 201, 255) }
```

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

```
.border{ border-color:rgb(221, 201, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 201, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 201, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 201, 255);  
box-shadow:4px 4px 4px 4px rgb(221, 201,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.3654, 0.2907, 0.2721 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 201, 255) }
```

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

```
.background{ background-color: rgb(221,  
201, 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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