

# Converting Colors

$Y_{xy}(46.7256, 0.2825, 0.2421)$

Have a look what the booklet for  
Yxy(46.7256, 0.2825, 0.2421)  
contains.

<b>Yxy(46.7256, 0.2825, 0.2421)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(46.7256, 0.2825, 0.2421)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CAA7F4
RGB	202, 167, 244
RGB Percent	79%, 65%, 96%
CMY	0.2075, 0.3452, 0.0430
CMYK	0.17, 0.32, 0.00, 0.04
HSL	267°, 78%, 81%
HSV	267°, 32%, 96%
XYZ	54.5229, 46.7256, 91.7528
YIQ	186.2430, -3.8570, 31.3670

# Conversions

## Conversions Part 2

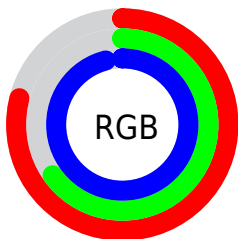
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	202, 167, 244
Decimal	13281268
CIE Lab	74.01, 27.46, -33.71
CIE LCh	74, 43.478, 309.162
Yxy	46.7256, 0.2825, 0.2421
Android (android.graphics.Color)	4291471348 (0xFFCAA7F4)
YUV	186.2430, 28.4742, 13.8189
Hunter-Lab	68.3561, 22.7536, -31.7343

# Details

The Yxy color  $46.7256, 0.2825, 0.2421$  is a light color, and the websafe version is hex  $CC99FF$ . A complement of this color would be  $81.0494, 0.3358, 0.4148$ , and the grayscale version is  $49.0898, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $80.7226, 0.3142, 0.2970$ , and  $22.0954, 0.2731, 0.2215$  is the 20% darker color. If you saturate the color by 10%, you get  $36.8412, 0.2701, 0.2116$ , and if you desaturate by 10%, it is  $58.4601, 0.2936, 0.2717$ .

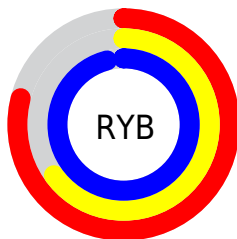
# Distribution



Red (79%)

Green (65%)

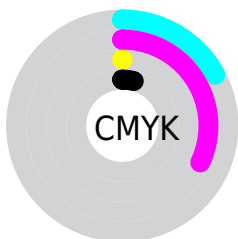
Blue (96%)



Red (79%)

Yellow (65%)

Blue (96%)

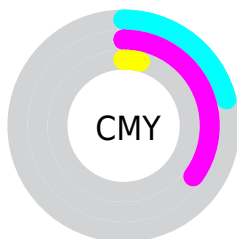


Cyan (17%)

Magenta (32%)

Yellow (0%)

Black (4%)



Cyan (21%)

Magenta (35%)

Yellow (4%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.7256, 0.2825, 0.2421 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 46.7256, 0.2825, 0.2421 by changing the saturation by 10% instead.




 46.7256, 0.2825,  
0.2421

 46.7256, 0.2825,  
0.2421


373.7182, 0.2981,  
0.2826

 32.8188, 0.2785,  
0.2329


 85.3039, 0.2882,  
0.2561

 21.9877, 0.2734,  
0.2215


 110.7441, 0.2904,  
0.2616

 13.8478, 0.2667,  
0.2073


140.7977, 0.2922,  
0.2663

 8.0149, 0.2573,  
0.1890

175.8489, 0.2937,  
0.2704

 4.1045, 0.2438,  
0.1647

216.2821, 0.2951,  
0.2740

 1.7322, 0.2229,  
0.1316

262.4818, 0.2962,

 0.4444, 0.1901,

0.2772

0.0755

314.8324, 0.2972,  
0.2801

0.0000, 0.0219,  
0.0000

0.0000, 0.0000,  
0.0000

46.7256, 0.2825,  
0.2421

46.7256, 0.2825,  
0.2421

36.8412, 0.2701,  
0.2116

58.4601, 0.2936,  
0.2717

28.7020, 0.2566,  
0.1813

72.1306, 0.3032,  
0.2995

22.2013, 0.2423,  
0.1526

87.8242, 0.3115,  
0.3252

17.2177, 0.2280,  
0.1272

99.3132, 0.3191,  
0.3395

■ 13.6120, 0.2142,  
0.1065

■ 11.2178, 0.2016,  
0.0917

■ 9.9241, 0.1923,  
0.0833

# Harmonies

## Analogous

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



46.7256, 0.2349, 0.2343



46.7256, 0.2825, 0.2421



46.7256, 0.3436, 0.2681

# Triad

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



46.7256, 0.2825, 0.2421



46.7256, 0.4263, 0.3989



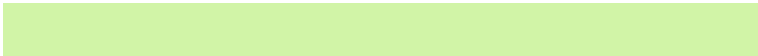
46.7256, 0.2298, 0.3437

# Complementary

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



46.7256, 0.2825, 0.2421



81.0494, 0.3358, 0.4148

# 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.



46.7256, 0.2754, 0.4038



46.7256, 0.2825, 0.2421



46.7256, 0.3894, 0.4324

# Square

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



46.7256, 0.2825, 0.2421



46.7256, 0.4316, 0.3537



46.7256, 0.3338, 0.4377



46.7256, 0.2068, 0.2858



# Rectangle

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



46.7256, 0.2825, 0.2421



46.7256, 0.3834, 0.2933



46.7256, 0.3338, 0.4377



46.7256, 0.2428, 0.3648

# Sweetspot

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



46.7275, 0.2825, 0.2421



83.9283, 0.3055, 0.3063



60.5191, 0.2626, 0.2881



17.4453, 0.3042, 0.3024



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.



46.7275, 0.2825, 0.2421



44.2989, 0.2746, 0.2223



52.7158, 0.3132, 0.2497



16.2965, 0.3051, 0.3050



5.4739, 0.1939, 0.0842



0.5414, 0.2077, 0.0918



# Inverse Universe

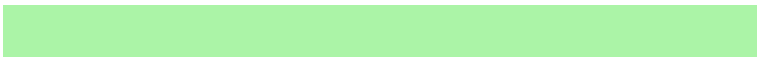
The Inverse Universe completely reimagines the original color for something new.



51.4642, 0.3460, 0.2843



50.4436, 0.3554, 0.2749



76.1439, 0.3107, 0.4218



16.6335, 0.3208, 0.3162



11.4042, 0.4773, 0.2403

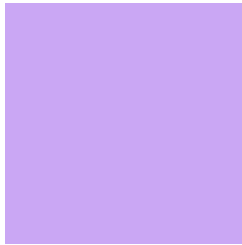


1.0230, 0.4522, 0.2265



# Previews

## White Background



This preview shows how the Yxy color 46.7256, 0.2825, 0.2421 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

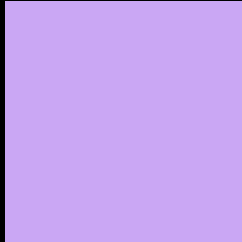
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.7256, 0.2825, 0.2421 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

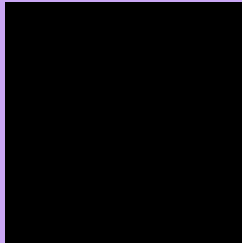
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.7256, 0.2825, 0.2421**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.7256, 0.2825, 0.2421.



This preview shows how white text looks on a background with the Yxy color 46.7256, 0.2825, 0.2421.

# 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

46.7256, 0.2825, 0.2421

### Protanopia

47.2719, 0.2481, 0.2408

### Deuteranopia

46.8665, 0.2593, 0.2527



## Tritanopia

46.5433, 0.3153, 0.3114

# Trichromacy



## Original Color

46.7256, 0.2825, 0.2421

## Protanomaly

46.6760, 0.2594, 0.2409

## Deuteranomaly

46.8343, 0.2672, 0.2487

## Tritanomaly

46.2760, 0.3029, 0.2840

# Monochromacy



## Original Color

46.7256, 0.2825, 0.2421

## Achromatopsia

49.1021, 0.3127, 0.3290

## Achromatomaly

47.9517, 0.3018, 0.2946

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.7256, 0.2825, 0.2421 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(202, 167, 244)` looks like.

```
.text, #text, p{  
    color:rgb(202, 167, 244)  
}
```

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(202, 167, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 167, 244) }
```

## Border

The CSS property to change the border of an element to Yxy 46.7256, 0.2825, 0.2421 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(202, 167, 244) }
```

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

```
.border{ border-color:rgb(202, 167, 244) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 167, 244)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 167, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 167, 244);  
box-shadow:4px 4px 4px 4px rgb(202, 167,  
244) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.7256, 0.2825, 0.2421 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 167, 244) }
```

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

```
.background{ background-color: rgb(202,  
167, 244) }
```

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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