

# Converting Colors

$Y_{xy}(52.3264, 0.2507, 0.1873)$

Have a look what the booklet for  
Yxy(52.3264, 0.2507, 0.1873)  
contains.

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# Color

**Yxy(47.8615, 0.2848, 0.2304)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D7A3FF
RGB	215, 163, 255
RGB Percent	84%, 64%, 100%
CMY	0.1570, 0.3607, 0.0001
CMYK	0.16, 0.36, 0.00, 0.00
HSL	274°, 100%, 82%
HSV	274°, 36%, 100%
XYZ	59.1621, 47.8615, 100.7086
YIQ	189.0360, 1.4600, 39.6360

# Conversions

## Conversions Part 2

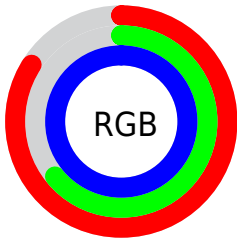
Format	Color
R <sub>Y</sub> B	215, 163, 255
Decimal	14132223
CIE Lab	74.74, 35.80, -38.42
CIE LCh	75, 52.516, 312.980
Yxy	47.8615, 0.2848, 0.2304
Android (android.graphics.Color)	4292322303 (0xFFD7A3FF)
YUV	189.0360, 32.5203, 22.7704
Hunter-Lab	69.1820, 31.5787, -37.8813

# Details

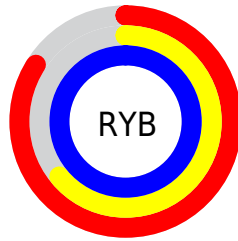
The Yxy color **47.8615, 0.2848, 0.2304** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **86.8515, 0.3321, 0.4305**, and the grayscale version is **50.7210, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.6228, 0.3144, 0.2930**, and **22.6000, 0.2762, 0.2076** is the 20% darker color. If you saturate the color by 10%, you get **38.0795, 0.2745, 0.2012**, and if you desaturate by 10%, it is **59.5866, 0.2940, 0.2595**.

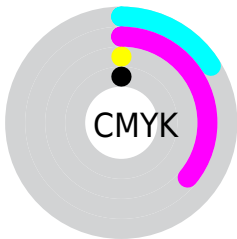
# Distribution



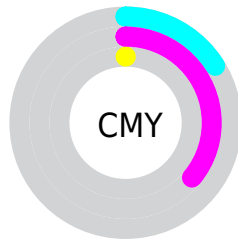
- Red (84%)
- Green (64%)
- Blue (100%)



- Red (84%)
- Yellow (64%)
- Blue (100%)



- Cyan (16%)
- Magenta (36%)
- Yellow (0%)
- Black (0%)




- Cyan (16%)
- Magenta (36%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.8615, 0.2848, 0.2304 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 47.8615, 0.2848, 0.2304 by changing the saturation by 10% instead.




 47.8615, 0.2848,  
0.2304

 47.8615, 0.2848,  
0.2304


378.2429, 0.2995,  
0.2754

 33.7172, 0.2810,  
0.2204


 86.9982, 0.2903,  
0.2458

 22.6764, 0.2762,  
0.2082


 112.7593, 0.2923,  
0.2519

 14.3548, 0.2697,  
0.1932


143.1616, 0.2940,  
0.2571

 8.3678, 0.2608,  
0.1741

178.5893, 0.2954,  
0.2617

 4.3312, 0.2479,  
0.1495

219.4269, 0.2967,  
0.2657

 1.8605, 0.2282,  
0.1171

266.0588, 0.2978,

 0.5245, 0.1971,

0.2693

0.0693

318.8693, 0.2987,  
0.2725

0.0000, 0.1131,  
0.0000

0.0000, 0.0000,  
0.0000

47.8615, 0.2848,  
0.2304

47.8615, 0.2848,  
0.2304

38.0795, 0.2745,  
0.2012

59.5866, 0.2940,  
0.2595

30.1221, 0.2633,  
0.1732

73.3520, 0.3021,  
0.2875

23.8667, 0.2515,  
0.1477

89.2558, 0.3090,  
0.3139

19.1726, 0.2397,  
0.1262

99.9986, 0.3127,  
0.3290

■ 15.8753, 0.2283,  
0.1096

■ 13.7712, 0.2177,  
0.0985

■ 13.1525, 0.2137,  
0.0951

# Harmonies

## Analogous

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



47.8615, 0.2267, 0.2181



47.8615, 0.2848, 0.2304



47.8615, 0.3586, 0.2626

# Triad

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



47.8615, 0.2848, 0.2304



47.8615, 0.4431, 0.4153



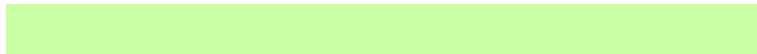
47.8615, 0.2095, 0.3358

# Complementary

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



47.8615, 0.2848, 0.2304



86.8515, 0.3321, 0.4305

# 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.



47.8615, 0.2592, 0.4119



47.8615, 0.2848, 0.2304



47.8615, 0.3943, 0.4548

# Square

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



47.8615, 0.2848, 0.2304



47.8615, 0.4564, 0.3625



47.8615, 0.3269, 0.4587



47.8615, 0.1875, 0.2690



# Rectangle

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



47.8615, 0.2848, 0.2304



47.8615, 0.4055, 0.2925



47.8615, 0.3269, 0.4587



47.8615, 0.2233, 0.3618

# Sweetspot

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



47.8635, 0.2848, 0.2304



81.1494, 0.3058, 0.3011



58.3844, 0.2537, 0.2701



16.9117, 0.3048, 0.2975



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.



47.8635, 0.2848, 0.2304



40.8862, 0.2777, 0.2101



54.3838, 0.3206, 0.2433



17.8841, 0.3068, 0.3051



6.9637, 0.2153, 0.0960



0.7427, 0.2268, 0.1023



# Inverse Universe

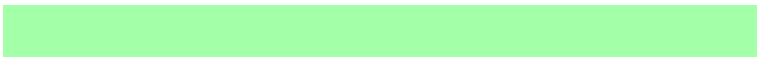
The Inverse Universe completely reimagines the original color for something new.



51.7709, 0.3618, 0.2877



45.4705, 0.3755, 0.2797



82.1078, 0.3053, 0.4329



18.1183, 0.3226, 0.3187



11.7365, 0.5239, 0.2660

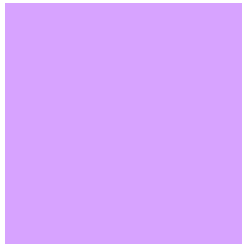


1.1642, 0.4952, 0.2501



# Previews

## White Background



This preview shows how the Yxy color 47.8615, 0.2848, 0.2304 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

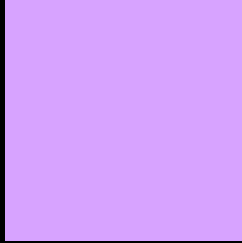
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.8615, 0.2848, 0.2304 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

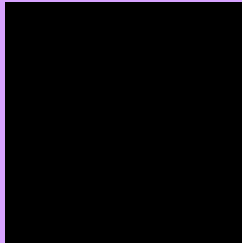
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 47.8615, 0.2848, 0.2304**

## Background



This preview shows how black text looks on a background with the Yxy color 47.8615, 0.2848, 0.2304.

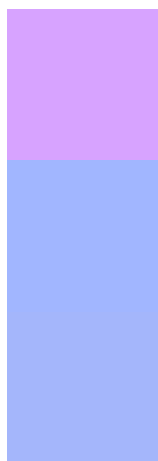


This preview shows how white text looks on a background with the Yxy color 47.8615, 0.2848, 0.2304.

# 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

47.8615, 0.2848, 0.2304

### Protanopia

48.2530, 0.2486, 0.2424

### Deuteranopia

48.3134, 0.2526, 0.2468



## Tritanopia

47.7475, 0.3267, 0.3120

# Trichromacy



**Original Color**

47.8615, 0.2848, 0.2304

**Protanomaly**

47.7037, 0.2606, 0.2371

**Deuteranomaly**

47.7555, 0.2638, 0.2403

**Tritanomaly**

47.5362, 0.3108, 0.2788

# Monochromacy



**Original Color**

47.8615, 0.2848, 0.2304

**Achromatopsia**

50.8881, 0.3127, 0.3290

**Achromatomaly**

49.4524, 0.3021, 0.2895

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.8615, 0.2848, 0.2304 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(215, 163, 255)` looks like.

```
.text, #text, p{  
    color:rgb(215, 163, 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(215, 163, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 163, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 47.8615, 0.2848, 0.2304 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(215, 163, 255) }
```

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

```
.border{ border-color:rgb(215, 163, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 163, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 163, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 163, 255);  
box-shadow:4px 4px 4px 4px rgb(215, 163,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.8615, 0.2848, 0.2304 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 163, 255) }
```

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

```
.background{ background-color: rgb(215,  
163, 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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