

# Converting Colors

$Y_{xy}(50.9143, 0.2639, 0.1981)$

Have a look what the booklet for  
Yxy(50.9143, 0.2639, 0.1981)  
contains.

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# Color

**Yxy(48.0819, 0.2895, 0.2296)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDA1FF
RGB	221, 161, 255
RGB Percent	87%, 63%, 100%
CMY	0.1332, 0.3687, 0.0000
CMYK	0.13, 0.37, 0.00, 0.00
HSL	278°, 100%, 82%
HSV	278°, 37%, 100%
XYZ	60.6259, 48.0819, 100.7081
YIQ	189.6560, 5.5860, 41.9540

# Conversions

## Conversions Part 2

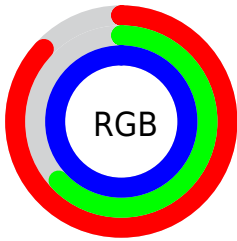
Format	Color
R <sub>Y</sub> B	221, 161, 255
Decimal	14524927
CIE Lab	74.88, 38.70, -38.18
CIE LCh	75, 54.360, 315.384
Yxy	48.0819, 0.2895, 0.2296
Android (android.graphics.Color)	4292715007 (0xFFDDA1FF)
YUV	189.6560, 32.2146, 27.4887
Hunter-Lab	69.3411, 34.7181, -37.5715

# Details

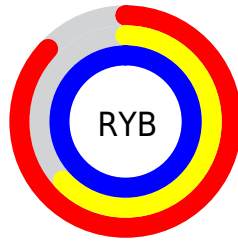
The Yxy color **48.0819, 0.2895, 0.2296** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **85.6860, 0.3280, 0.4345**, and the grayscale version is **51.0947, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.1057, 0.3145, 0.2920**, and **22.8017, 0.2823, 0.2072** is the 20% darker color. If you saturate the color by 10%, you get **38.6555, 0.2810, 0.2016**, and if you desaturate by 10%, it is **59.4063, 0.2971, 0.2580**.

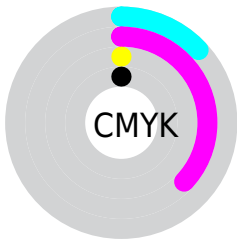
# Distribution



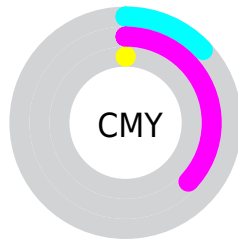
- Red (87%)
- Green (63%)
- Blue (100%)



- Red (87%)
- Yellow (63%)
- Blue (100%)



- Cyan (13%)
- Magenta (37%)
- Yellow (0%)
- Black (0%)




- Cyan (13%)
- Magenta (37%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.0819, 0.2895, 0.2296 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 48.0819, 0.2895, 0.2296 by changing the saturation by 10% instead.





 48.0819, 0.2895,  
0.2296


 48.0819, 0.2895,  
0.2296


379.1167, 0.3021,  
0.2748

 33.8917, 0.2862,  
0.2196


 87.3263, 0.2942,  
0.2451

 22.8105, 0.2820,  
0.2074


 113.1494, 0.2959,  
0.2511

 14.4536, 0.2763,  
0.1924


143.6189, 0.2974,  
0.2564

 8.4368, 0.2684,  
0.1734

179.1192, 0.2986,  
0.2610

 4.3757, 0.2568,  
0.1489

220.0348, 0.2996,  
0.2651

 1.8859, 0.2388,  
0.1169

266.7499, 0.3006,

 0.5399, 0.2100,

0.2687

0.0700

319.6491, 0.3014,  
0.2719

0.0000, 0.1390,  
0.0000

0.0000, 0.0000,  
0.0000

48.0819, 0.2895,  
0.2296

48.0819, 0.2895,  
0.2296

38.6555, 0.2810,  
0.2016

59.4063, 0.2971,  
0.2580

31.0123, 0.2717,  
0.1750

72.7294, 0.3037,  
0.2856

25.0283, 0.2619,  
0.1512

88.1473, 0.3094,  
0.3119

20.5624, 0.2520,  
0.1314

100.0000, 0.3127,  
0.3290

■ 17.4488, 0.2422,  
0.1165

■ 15.4778, 0.2331,  
0.1067

■ 14.9970, 0.2303,  
0.1042

# Harmonies

## Analogous

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



48.0819, 0.2280, 0.2152



48.0819, 0.2895, 0.2296



48.0819, 0.3662, 0.2640

# Triad

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



48.0819, 0.2895, 0.2296



48.0819, 0.4441, 0.4214



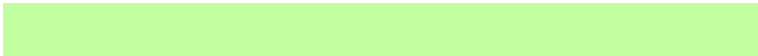
48.0819, 0.2035, 0.3294

# Complementary

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



48.0819, 0.2895, 0.2296



85.6860, 0.3280, 0.4345

# 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.



48.0819, 0.2523, 0.4092



48.0819, 0.2895, 0.2296



48.0819, 0.3913, 0.4608

# Square

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



48.0819, 0.2895, 0.2296



48.0819, 0.4617, 0.3675



48.0819, 0.3211, 0.4615



48.0819, 0.1834, 0.2625



# Rectangle

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



48.0819, 0.2895, 0.2296



48.0819, 0.4137, 0.2952



48.0819, 0.3211, 0.4615



48.0819, 0.2167, 0.3562

# Sweetspot

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



48.0827, 0.2895, 0.2296



81.5199, 0.3072, 0.3013



54.0295, 0.2509, 0.2589



17.0001, 0.3064, 0.2977



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.



48.0827, 0.2895, 0.2296



41.1735, 0.2835, 0.2095



53.1820, 0.3272, 0.2483



17.9532, 0.3080, 0.3052



7.9235, 0.2317, 0.1050



0.8332, 0.2419, 0.1106



# Inverse Universe

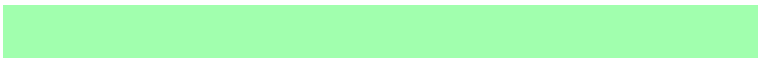
The Inverse Universe completely reimagines the original color for something new.



50.6805, 0.3700, 0.2938



44.2771, 0.3864, 0.2870



82.1323, 0.3011, 0.4261



18.0955, 0.3237, 0.3204



11.5393, 0.5540, 0.2825

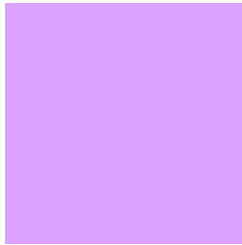


1.1436, 0.5227, 0.2653



# Previews

## White Background



This preview shows how the Yxy color 48.0819, 0.2895, 0.2296 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

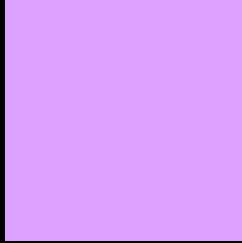
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.0819, 0.2895, 0.2296 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

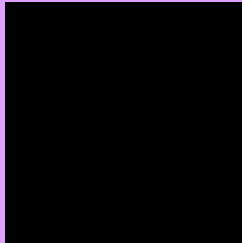
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.0819, 0.2895, 0.2296**

## Background



This preview shows how black text looks on a background with the Yxy color 48.0819, 0.2895, 0.2296.



This preview shows how white text looks on a background with the Yxy color 48.0819, 0.2895, 0.2296.

# 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

48.0819, 0.2895, 0.2296

### Protanopia

48.3573, 0.2492, 0.2426

### Deuteranopia

48.4203, 0.2533, 0.2469



## Tritanopia

48.1397, 0.3338, 0.3135

# Trichromacy



## Original Color

48.0819, 0.2895, 0.2296



## Protanomaly

47.5594, 0.2619, 0.2363



## Deuteranomaly

47.6147, 0.2651, 0.2395



## Tritanomaly

47.9500, 0.3176, 0.2805

# Monochromacy



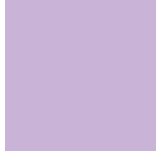
## Original Color

48.0819, 0.2895, 0.2296



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

49.5127, 0.3038, 0.2874

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.0819, 0.2895, 0.2296 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, 161, 255)` looks like.

```
.text, #text, p{  
    color:rgb(221, 161, 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, 161, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 161, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 48.0819, 0.2895, 0.2296 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, 161, 255) }
```

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

```
.border{ border-color:rgb(221, 161, 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, 161, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 161, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 161, 255);  
box-shadow:4px 4px 4px 4px rgb(221, 161,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.0819, 0.2895, 0.2296 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 161, 255) }
```

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

```
.background{ background-color: rgb(221,  
161, 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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