

# Converting Colors

$Y_{xy}(46.7244, 0.2797, 0.2284)$

Have a look what the booklet for  
Yxy(46.7244, 0.2797, 0.2284)  
contains.

<b>Yxy(46.9697, 0.2801, 0.2291)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(46.9697, 0.2801, 0.2291)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D1A3FF
RGB	209, 163, 255
RGB Percent	82%, 64%, 100%
CMY	0.1806, 0.3607, 0.0001
CMYK	0.18, 0.36, 0.00, 0.00
HSL	270°, 100%, 82%
HSV	270°, 36%, 100%
XYZ	57.4256, 46.9697, 100.6230
YIQ	187.2420, -2.1160, 38.3640

# Conversions

## Conversions Part 2

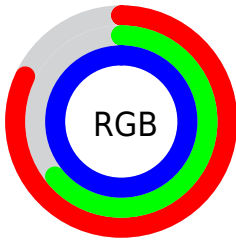
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	209, 163, 255
Decimal	13739007
CIE Lab	74.17, 34.03, -39.34
CIE LCh	74, 52.017, 310.857
Yxy	46.9697, 0.2801, 0.2291
Android (android.graphics.Color)	4291929087 (0xFFD1A3FF)
YUV	187.2420, 33.4047, 19.0818
Hunter-Lab	68.5344, 29.6315, -39.0761

# Details

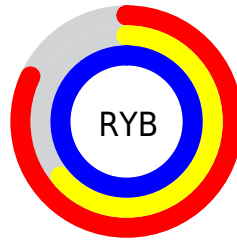
The Yxy color **46.9697, 0.2801, 0.2291** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **87.7123, 0.3360, 0.4292**, and the grayscale version is **49.6458, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.6228, 0.3144, 0.2930**, and **22.2184, 0.2701, 0.2068** is the 20% darker color. If you saturate the color by 10%, you get **37.0221, 0.2682, 0.1990**, and if you desaturate by 10%, it is **58.8955, 0.2908, 0.2588**.

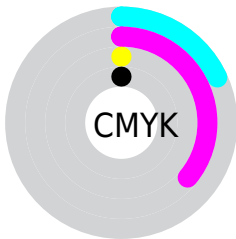
# Distribution



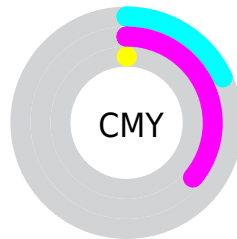
- Red (82%)
- Green (64%)
- Blue (100%)



- Red (82%)
- Yellow (64%)
- Blue (100%)



- Cyan (18%)
- Magenta (36%)
- Yellow (0%)
- Black (0%)




- Cyan (18%)
- Magenta (36%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.9697, 0.2801, 0.2291 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 46.9697, 0.2801, 0.2291 by changing the saturation by 10% instead.





 46.9697, 0.2801,  
0.2291


 46.9697, 0.2801,  
0.2291


374.6936, 0.2971,  
0.2749

 33.0117, 0.2758,  
0.2189


 85.6684, 0.2864,  
0.2448

 22.1354, 0.2702,  
0.2065


 111.1779, 0.2887,  
0.2510

 13.9564, 0.2629,  
0.1911


141.3066, 0.2907,  
0.2563

 8.0904, 0.2529,  
0.1716

176.4391, 0.2923,  
0.2610

 4.1528, 0.2385,  
0.1465

216.9596, 0.2938,  
0.2651

 1.7594, 0.2167,  
0.1135

263.2526, 0.2950,

 0.4617, 0.1831,

0.2687

0.0628

315.7025, 0.2961,  
0.2719

0.0000, 0.0798,  
0.0000

0.0000, 0.0000,  
0.0000

46.9697, 0.2801,  
0.2291

46.9697, 0.2801,  
0.2291

37.0221, 0.2682,  
0.1990

58.8955, 0.2908,  
0.2588

28.9333, 0.2553,  
0.1699

72.8983, 0.3003,  
0.2873

22.5792, 0.2419,  
0.1432

89.0768, 0.3084,  
0.3139

17.8178, 0.2286,  
0.1205

99.9982, 0.3127,  
0.3290

■ 14.4833, 0.2159,  
0.1030

■ 12.3705, 0.2045,  
0.0912

■ 11.7550, 0.2003,  
0.0877

# Harmonies

## Analogous

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



46.9697, 0.2237, 0.2184



46.9697, 0.2801, 0.2291



46.9697, 0.3532, 0.2600

# Triad

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



46.9697, 0.2801, 0.2291



46.9697, 0.4450, 0.4116



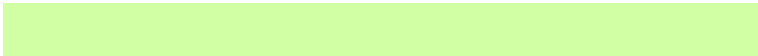
46.9697, 0.2125, 0.3412

# Complementary

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



46.9697, 0.2801, 0.2291



87.7123, 0.3360, 0.4292

# 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.



46.9697, 0.2638, 0.4163



46.9697, 0.2801, 0.2291



46.9697, 0.3984, 0.4525

# Square

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



46.9697, 0.2801, 0.2291



46.9697, 0.4552, 0.3586



46.9697, 0.3319, 0.4596



46.9697, 0.1885, 0.2731



# Rectangle

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



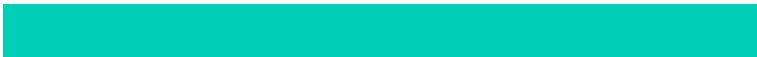
46.9697, 0.2801, 0.2291



46.9697, 0.4006, 0.2892



46.9697, 0.3319, 0.4596



46.9697, 0.2268, 0.3673

# Sweetspot

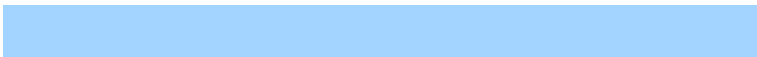
The Sweet Spot groups the original color and five complimentary colors.



46.9716, 0.2801, 0.2291



80.8240, 0.3045, 0.3010



61.3662, 0.2547, 0.2775



16.8341, 0.3034, 0.2974



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.



46.9716, 0.2801, 0.2291



39.8717, 0.2719, 0.2082



54.3898, 0.3157, 0.2391



17.8233, 0.3057, 0.3050



6.2325, 0.2020, 0.0886



0.6717, 0.2142, 0.0954



# Inverse Universe

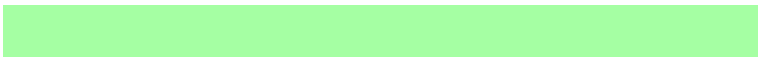
The Inverse Universe completely reimagines the original color for something new.



52.0676, 0.3562, 0.2817



45.7996, 0.3682, 0.2725



82.1007, 0.3085, 0.4382



18.1388, 0.3215, 0.3172



11.9487, 0.4962, 0.2507

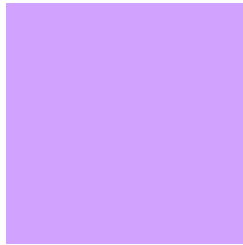


1.1855, 0.4708, 0.2367



# Previews

## White Background



This preview shows how the Yxy color 46.9697, 0.2801, 0.2291 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

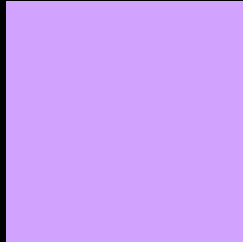
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.9697, 0.2801, 0.2291 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 46.9697, 0.2801, 0.2291**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.9697, 0.2801, 0.2291.



This preview shows how white text looks on a background with the Yxy color 46.9697, 0.2801, 0.2291.

# 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

46.9697, 0.2801, 0.2291

### Protanopia

47.2334, 0.2470, 0.2397

### Deuteranopia

47.1444, 0.2492, 0.2428



## Tritanopia

46.7741, 0.3205, 0.3116

# Trichromacy



**Original Color**

46.9697, 0.2801, 0.2291

**Protanomaly**

46.8392, 0.2577, 0.2353

**Deuteranomaly**

46.8289, 0.2596, 0.2373

**Tritanomaly**

46.5374, 0.3048, 0.2778

# Monochromacy



**Original Color**

46.9697, 0.2801, 0.2291

**Achromatopsia**

49.6933, 0.3127, 0.3290

**Achromatomaly**

48.1964, 0.3005, 0.2878

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.9697, 0.2801, 0.2291 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(209, 163, 255)` looks like.

```
.text, #text, p{  
    color:rgb(209, 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(209, 163, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 163, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 46.9697, 0.2801, 0.2291 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(209, 163, 255) }
```

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

```
.border{ border-color:rgb(209, 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(209, 163, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 163, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 163, 255);  
box-shadow:4px 4px 4px 4px rgb(209, 163,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.9697, 0.2801, 0.2291 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 163, 255) }
```

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

```
.background{ background-color: rgb(209,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor