

# Converting Colors

$Y_{xy}(28.8403, 0.2679, 0.1668)$

Have a look what the booklet for  
Yxy(28.8403, 0.2679, 0.1668)  
contains.

<b>Yxy(28.8649, 0.2680, 0.1669)</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(28.8649, 0.2680, 0.1669)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C766FF
RGB	199, 102, 255
RGB Percent	78%, 40%, 100%
CMY	0.2197, 0.5999, 0.0000
CMYK	0.22, 0.60, 0.00, 0.00
HSL	278°, 100%, 70%
HSV	278°, 60%, 100%
XYZ	46.3499, 28.8649, 97.7325
YIQ	148.4450, 8.6990, 68.1470

# Conversions

## Conversions Part 2

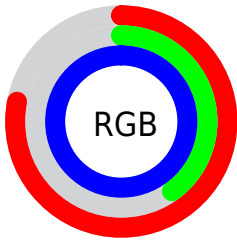
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	199, 102, 255
Decimal	13068031
CIE <sub>Lab</sub>	60.66, 63.12, -60.75
CIE <sub>LCh</sub>	61, 87.602, 316.094
Yxy	28.8649, 0.2680, 0.1669
Android (android.graphics.Color)	4291258111 (0xFFC766FF)
YUV	148.4450, 52.5316, 44.3367
Hunter-Lab	53.7261, 59.9726, -70.2456

# Details

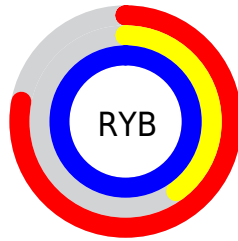
The Yxy color **28.8649, 0.2680, 0.1669** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **79.7498, 0.3324, 0.5072**, and the grayscale version is **29.5857, 0.3127, 0.3290**.

A 20% lighter version of the original color is **52.5939, 0.3172, 0.2338**, and **11.6479, 0.2516, 0.1330** is the 20% darker color. If you saturate the color by 10%, you get **23.3621, 0.2580, 0.1441**, and if you desaturate by 10%, it is **35.9892, 0.2776, 0.1928**.

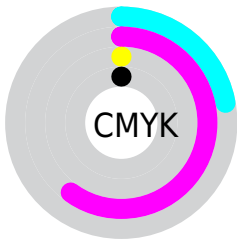
# Distribution



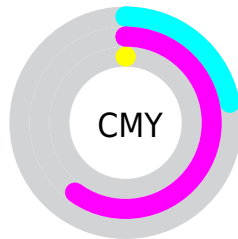
- Red (78%)
- Green (40%)
- Blue (100%)



- Red (78%)
- Yellow (40%)
- Blue (100%)



- Cyan (22%)
- Magenta (60%)
- Yellow (0%)
- Black (0%)




- Cyan (22%)
- Magenta (60%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.8649, 0.2680, 0.1669 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 28.8649, 0.2680, 0.1669 by changing the saturation by 10% instead.





 28.8649, 0.2680,  
0.1669

 28.8649, 0.2680,  
0.1669


296.5770, 0.2942,  
0.2404

 18.9786, 0.2608,  
0.1512


 57.8624, 0.2781,  
0.1917


 11.6548, 0.2512,  
0.1326


 77.7424, 0.2818,  
0.2015

 6.5091, 0.2384,  
0.1106


 101.7224, 0.2848,  
0.2102

 3.1571, 0.2204,  
0.0846

 130.1869, 0.2873,  
0.2177

 1.2143, 0.1946,  
0.0551

163.5202, 0.2894,  
0.2244

 0.0733, 0.1598,  
0.0063

202.1067, 0.2912,


 0.0000, 0.0981,


0.2303


0.0000

246.3308, 0.2928,  
0.2356


 0.0000, 0.0000,  
0.0000

 28.8649, 0.2680,  
0.1669


 28.8649, 0.2680,  
0.1669


 23.3621, 0.2580,  
0.1441


 35.9892, 0.2776,  
0.1928


 19.3295, 0.2479,  
0.1257


 44.8609, 0.2865,  
0.2207


 16.5922, 0.2382,  
0.1123

 55.5971, 0.2946,  
0.2491

 14.8633, 0.2291,  
0.1036

 68.3036, 0.3016,  
0.2771

 14.8620, 0.2291,  
0.1036

 83.0781, 0.3076,  
0.3039

99.9997, 0.3127,  
0.3290

# Harmonies

## Analogous

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



28.8649, 0.1692, 0.1439



28.8649, 0.2680, 0.1669



28.8649, 0.4120, 0.2181

# Triad

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



28.8649, 0.2680, 0.1669



28.8649, 0.5216, 0.4559



28.8649, 0.1230, 0.3126

# Complementary

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



28.8649, 0.2680, 0.1669



79.7498, 0.3324, 0.5072

# 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.



28.8649, 0.1912, 0.4911



28.8649, 0.2680, 0.1669



28.8649, 0.4181, 0.5531

# Square

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



28.8649, 0.2680, 0.1669



28.8649, 0.5772, 0.3660



28.8649, 0.3004, 0.5970



28.8649, 0.1028, 0.1989



# Rectangle

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



28.8649, 0.2680, 0.1669



28.8649, 0.5057, 0.2637



28.8649, 0.3004, 0.5970



28.8649, 0.1398, 0.3684

# Sweetspot

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



28.8660, 0.2680, 0.1669



71.0806, 0.3029, 0.2825



34.5373, 0.2108, 0.2035



14.3524, 0.3010, 0.2745



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.



28.8660, 0.2680, 0.1669



22.4400, 0.2560, 0.1400



36.7409, 0.3388, 0.2043



17.9484, 0.3079, 0.3052



7.8536, 0.2306, 0.1044



0.8266, 0.2408, 0.1100



# Inverse Universe

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



33.2357, 0.4296, 0.2737



27.6707, 0.4679, 0.2689



75.7589, 0.2959, 0.5006



18.0970, 0.3236, 0.3203



11.5514, 0.5520, 0.2815

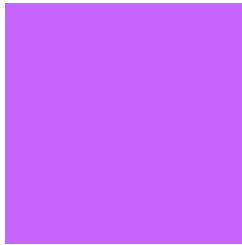


1.1449, 0.5208, 0.2643



# Previews

## White Background



This preview shows how the Yxy color 28.8649, 0.2680, 0.1669 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

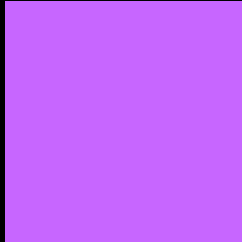
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.8649, 0.2680, 0.1669 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

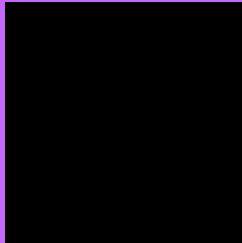
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.8649, 0.2680, 0.1669**

## Background



This preview shows how black text looks on a background with the Yxy color 28.8649, 0.2680, 0.1669.



This preview shows how white text looks on a background with the Yxy color 28.8649, 0.2680, 0.1669.

# 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

28.8649, 0.2680, 0.1669

### Protanopia

29.2446, 0.2027, 0.1825

### Deuteranopia

29.4114, 0.2006, 0.1948



## Tritanopia

28.5820, 0.3569, 0.3149

## Trichromacy



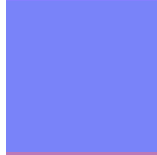
### Original Color

28.8649, 0.2680, 0.1669



### Protanomaly

27.5639, 0.2193, 0.1713



### Deuteranomaly

27.1371, 0.2158, 0.1770



### Tritanomaly

28.0711, 0.3209, 0.2478

## Monochromacy



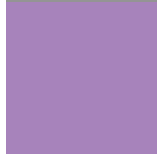
### Original Color

28.8649, 0.2680, 0.1669



### Achromatopsia

29.6138, 0.3127, 0.3290



### Achromatomaly

28.0359, 0.2955, 0.2509

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.8649, 0.2680, 0.1669 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(199, 102, 255)` looks like.

```
.text, #text, p{  
    color:rgb(199, 102, 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(199, 102, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 102, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 28.8649, 0.2680, 0.1669 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(199, 102, 255) }
```

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

```
.border{ border-color:rgb(199, 102, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 102, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 102, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 102, 255);  
box-shadow:4px 4px 4px 4px rgb(199, 102,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.8649, 0.2680, 0.1669 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 102, 255) }
```

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

```
.background{ background-color: rgb(199,  
102, 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