

# Converting Colors

$Yxy(13.1884, 0.2663, 0.1241)$

Have a look what the booklet for  
Yxy(13.1884, 0.2663, 0.1241)  
contains.

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**Color**

**Yxy(13.1799, 0.2665, 0.1242)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A800D6
RGB	168, 0, 214
RGB Percent	66%, 0%, 84%
CMY	0.3413, 0.9993, 0.1609
CMYK	0.21, 1.00, 0.00, 0.16
HSL	287°, 100%, 42%
HSV	287°, 100%, 84%
XYZ	28.2805, 13.1799, 64.6579
YIQ	74.6280, 31.4340, 102.1700

# Conversions

## Conversions Part 2

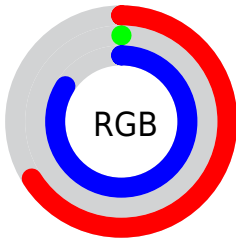
Format	Color
R <sub>Y</sub> B	168, 0, 214
Decimal	11010262
CIE Lab	43.03, 79.35, -66.33
CIE LCh	43, 103.417, 320.108
Yxy	13.1799, 0.2665, 0.1242
Android (android.graphics.Color)	4289200342 (0xFFA800D6)
YUV	74.6280, 68.7104, 81.8872
Hunter-Lab	36.3041, 75.5174, -80.1830

# Details

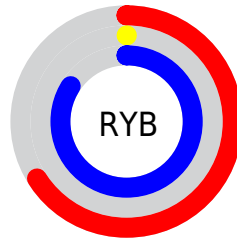
The Yxy color **13.1799, 0.2665, 0.1242** is a dark color, and the websafe version is hex **9900CC**. The color can be described as dark washed purple. A complement of this color would be **48.6680, 0.3073, 0.5941**, and the grayscale version is **6.8538, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.5304, 0.2942, 0.1681**, and **5.7198, 0.2447, 0.1122** is the 20% darker color. If you saturate the color by 10%, you get **13.1727, 0.2665, 0.1242**, and if you desaturate by 10%, it is **14.2483, 0.2721, 0.1312**.

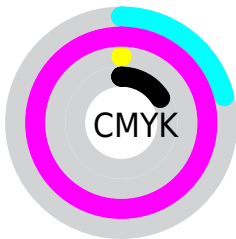
# Distribution



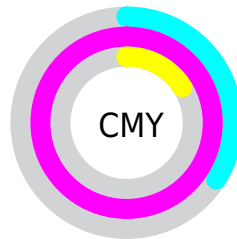
- Red (66%)
- Green (0%)
- Blue (84%)



- Red (66%)
- Yellow (0%)
- Blue (84%)



- Cyan (21%)
- Magenta (100%)
- Yellow (0%)
- Black (16%)




- Cyan (34%)
- Magenta (100%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.1799, 0.2665, 0.1242 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 13.1799, 0.2665, 0.1242 by changing the saturation by 10% instead.




 13.1799, 0.2665,  
0.1242


 13.1799, 0.2665,  
0.1242


212.0674, 0.2985,  
0.2214


 7.5525, 0.2560,  
0.1035


 31.6266, 0.2801,  
0.1572


 3.8100, 0.2413,  
0.0797


 45.2147, 0.2846,  
0.1704


 1.5679, 0.2202,  
0.0531


 62.2253, 0.2882,  
0.1818

 0.3358, 0.1903,  
0.0200

 83.0426, 0.2911,  
0.1918

 0.0000, 0.1441,  
0.0000

 108.0510, 0.2935,  
0.2006

 0.0000, 0.0396,  
0.0000

 137.6351, 0.2954,

 0.0000, 0.0000,

0.2083

0.0000

172.1791, 0.2971,  
0.2152

■ 13.1799, 0.2665,  
0.1242

■ 13.1799, 0.2665,  
0.1242

■ 13.1727, 0.2665,  
0.1242

■ 14.2483, 0.2721,  
0.1312

■ 15.9484, 0.2779,  
0.1422

■ 18.4816, 0.2837,  
0.1578

■ 21.9602, 0.2893,  
0.1775

■ 26.4788, 0.2946,  
0.2005

■ 32.1206, 0.2994,  
0.2258

■ 38.9601, 0.3036,  
0.2521

■ 47.0654, 0.3072,  
0.2786

■ 56.4996, 0.3102,  
0.3045

# Harmonies

## Analogous

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



13.1799, 0.1336, 0.0949



13.1799, 0.2665, 0.1242



13.1799, 0.4857, 0.1861

# Triad

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



13.1799, 0.2665, 0.1242



13.1799, 0.5378, 0.4622



13.1799, 0.0576, 0.2564

# Complementary

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



13.1799, 0.2665, 0.1242



48.6680, 0.3073, 0.5941

# 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.



13.1799, 0.1128, 0.5503



13.1799, 0.2665, 0.1242



13.1799, 0.3770, 0.6230

# Square

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



13.1799, 0.2665, 0.1242



13.1799, 0.6557, 0.3443



13.1799, 0.2292, 0.7399



13.1799, 0.0511, 0.1330



# Rectangle

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



13.1799, 0.2665, 0.1242



13.1799, 0.6192, 0.2374



13.1799, 0.2292, 0.7399



13.1799, 0.0687, 0.3348

# Sweetspot

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



13.1804, 0.2665, 0.1242



57.5312, 0.3034, 0.2511



6.8480, 0.1560, 0.0813



11.3452, 0.3017, 0.2398



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.



13.1804, 0.2665, 0.1242



19.5186, 0.2659, 0.1239



16.6099, 0.4093, 0.2029



12.4916, 0.3104, 0.3058



8.0106, 0.2673, 0.1246



0.5175, 0.2770, 0.1300



# Inverse Universe

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



14.4954, 0.6053, 0.3108



21.5345, 0.6076, 0.3121



48.4182, 0.2903, 0.5649



12.4641, 0.3258, 0.3240



8.7731, 0.6021, 0.3090



0.5416, 0.5531, 0.2821



# Previews

## White Background



This preview shows how the Yxy color 13.1799, 0.2665, 0.1242 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

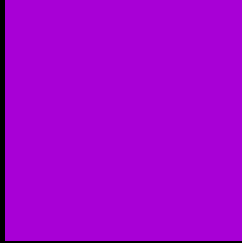
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 13.1799, 0.2665, 0.1242 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

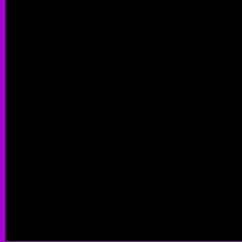
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 13.1799, 0.2665, 0.1242**

## **Background**



This preview shows how black text looks on a background with the Yxy color 13.1799, 0.2665, 0.1242.



This preview shows how white text looks on a background with the Yxy color 13.1799, 0.2665, 0.1242.

# 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

13.1799, 0.2665, 0.1242

### Protanopia

13.8175, 0.1744, 0.1477

### Deuteranopia

13.7688, 0.1844, 0.1839



## Tritanopia

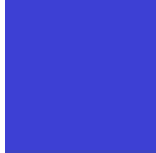
13.5629, 0.4138, 0.3190

# Trichromacy



## Original Color

13.1799, 0.2665, 0.1242



## Protanomaly

9.4124, 0.1771, 0.1066



## Deuteranomaly

9.0665, 0.1832, 0.1200



## Tritanomaly

11.5557, 0.3546, 0.2091

# Monochromacy



## Original Color

13.1799, 0.2665, 0.1242



## Achromatopsia

7.0360, 0.3127, 0.3290



## Achromatomaly

6.8715, 0.2892, 0.1786

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.1799, 0.2665, 0.1242 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(168, 0, 214)` looks like.

```
.text, #text, p{  
    color:rgb(168, 0, 214)  
}
```

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(168, 0, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 0, 214) }
```

## Border

The CSS property to change the border of an element to Yxy 13.1799, 0.2665, 0.1242 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(168, 0, 214) }
```

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

```
.border{ border-color:rgb(168, 0, 214) }
```

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

Here you see how a box with a 4 pixel rgb(168, 0, 214) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 0, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 0, 214);  
box-shadow:4px 4px 4px 4px rgb(168, 0,  
214) }
```



# Background

The CSS property to change the background color of an element to Yxy 13.1799, 0.2665, 0.1242 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 0, 214) }
```

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

```
.background{ background-color: rgb(168, 0,  
214) }
```

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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