

# Converting Colors

$Y_{xy}(28.0385, 0.2837, 0.1983)$

Have a look what the booklet for  
Yxy(28.0385, 0.2837, 0.1983)  
contains.

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# Color

**Yxy(28.0537, 0.2837, 0.1986)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BC72DF
RGB	188, 114, 223
RGB Percent	74%, 45%, 87%
CMY	0.2628, 0.5529, 0.1254
CMYK	0.16, 0.49, 0.00, 0.13
HSL	281°, 63%, 66%
HSV	281°, 49%, 87%
XYZ	40.0747, 28.0537, 73.1289
YIQ	148.5520, 9.1150, 49.5870

# Conversions

## Conversions Part 2

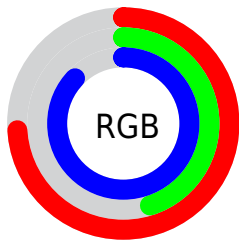
Format	Color
R <sub>Y</sub> B	188, 114, 223
Decimal	12350175
CIE Lab	59.94, 47.61, -44.22
CIE LCh	60, 64.981, 317.114
Yxy	28.0537, 0.2837, 0.1986
Android (android.graphics.Color)	4290540255 (0xFFBC72DF)
YUV	148.5520, 36.7029, 34.5959
Hunter-Lab	52.9657, 42.3658, -44.7847

# Details

The Yxy color **28.0537, 0.2837, 0.1986** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **60.3952, 0.3278, 0.4733**, and the grayscale version is **29.6985, 0.3127, 0.3290**.

A 20% lighter version of the original color is **54.8181, 0.3095, 0.2422**, and **11.1408, 0.2714, 0.1660** is the 20% darker color. If you saturate the color by 10%, you get **22.7341, 0.2755, 0.1733**, and if you desaturate by 10%, it is **34.6472, 0.2913, 0.2257**.

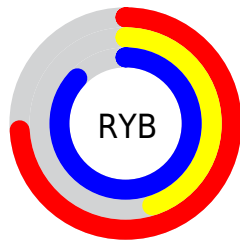
# Distribution



Red (74%)

Green (45%)

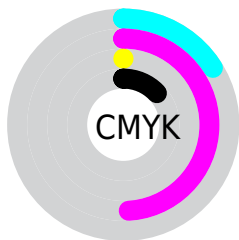
Blue (87%)



Red (74%)

Yellow (45%)

Blue (87%)

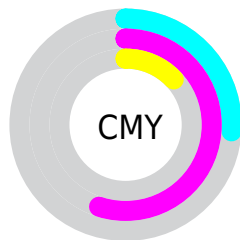


Cyan (16%)

Magenta (49%)

Yellow (0%)

Black (13%)



Cyan (26%)

Magenta (55%)


Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.0537, 0.2837, 0.1986 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 28.0537, 0.2837, 0.1986 by changing the saturation by 10% instead.





 28.0537, 0.2837,  
0.1986


 28.0537, 0.2837,  
0.1986


292.7234, 0.3012,  
0.2612


 18.3661, 0.2785,  
0.1841


 56.5702, 0.2907,  
0.2205

 11.2132, 0.2715,  
0.1664


 76.1679, 0.2931,  
0.2290

 6.2104, 0.2616,  
0.1442


 99.8377, 0.2951,  
0.2363

 2.9734, 0.2469,  
0.1162

127.9642, 0.2967,  
0.2426

 1.1179, 0.2236,  
0.0812

160.9316, 0.2981,  
0.2481

 0.0000, 0.1925,  
0.0000

199.1243, 0.2993,


 0.0000, 0.0449,


0.2530

0.0000

242.9268, 0.3003,  
0.2573


 0.0000, 0.0000,  
0.0000

 28.0537, 0.2837,  
0.1986


 28.0537, 0.2837,  
0.1986


 22.7341, 0.2755,  
0.1733


 34.6472, 0.2913,  
0.2257


 18.5935, 0.2668,  
0.1510

 42.5934, 0.2980,  
0.2534


 15.5293, 0.2580,  
0.1328


 51.9685, 0.3039,  
0.2807


 13.4187, 0.2494,  
0.1194


 62.8422, 0.3089,  
0.3070


 12.0727, 0.2411,  
0.1106

 75.2793, 0.3131,  
0.3317

 11.9411, 0.2402,  
0.1097

 89.3410, 0.3166,  
0.3545

 95.0535, 0.3207,  
0.3612

 96.3201, 0.3253,  
0.3607

 97.6366, 0.3299,  
0.3603

# Harmonies

## Analogous

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



28.0537, 0.2007, 0.1781



28.0537, 0.2837, 0.1986



28.0537, 0.3934, 0.2434

# Triad

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



28.0537, 0.2837, 0.1986



28.0537, 0.4849, 0.4480



28.0537, 0.1608, 0.3180

# Complementary

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



28.0537, 0.2837, 0.1986



60.3952, 0.3278, 0.4733

# 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.



28.0537, 0.2202, 0.4416



28.0537, 0.2837, 0.1986



28.0537, 0.4066, 0.5124

# Square

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



28.0537, 0.2837, 0.1986



28.0537, 0.5205, 0.3744



28.0537, 0.3106, 0.5237



28.0537, 0.1405, 0.2285



# Rectangle

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



28.0537, 0.2837, 0.1986



28.0537, 0.4618, 0.2833



28.0537, 0.3106, 0.5237



28.0537, 0.1761, 0.3579

# Sweetspot

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



28.0549, 0.2837, 0.1986



75.7195, 0.3059, 0.2908



30.8300, 0.2293, 0.2264



15.5590, 0.3048, 0.2851



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.



28.0549, 0.2837, 0.1986



30.4463, 0.2750, 0.1720



32.1284, 0.3367, 0.2279



13.7033, 0.3087, 0.3055



7.0830, 0.2414, 0.1104



0.5385, 0.2539, 0.1173



# Inverse Universe

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



29.8991, 0.4035, 0.2880



33.5684, 0.4354, 0.2812



58.0352, 0.2961, 0.4582



13.7728, 0.3242, 0.3215



9.5152, 0.5676, 0.2901

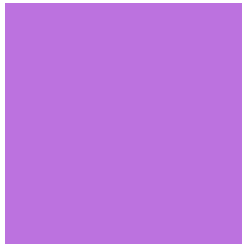


0.6755, 0.5239, 0.2660



# Previews

## White Background



This preview shows how the Yxy color 28.0537, 0.2837, 0.1986 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

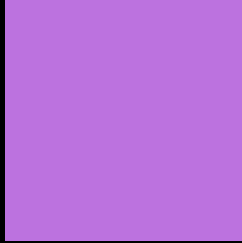
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.0537, 0.2837, 0.1986 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

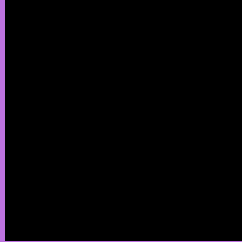
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.0537, 0.2837, 0.1986**

## Background



This preview shows how black text looks on a background with the Yxy color 28.0537, 0.2837, 0.1986.

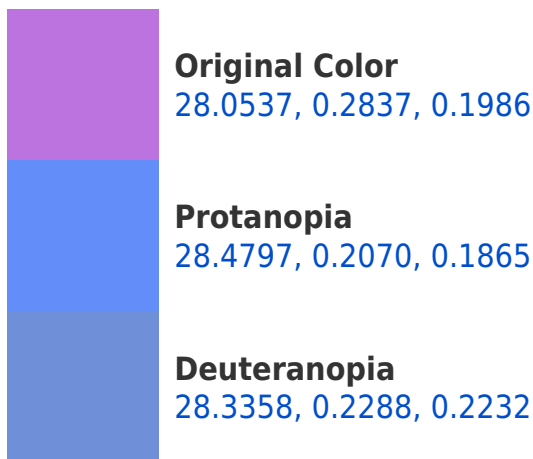


This preview shows how white text looks on a background with the Yxy color 28.0537, 0.2837, 0.1986.

# 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





## Tritanopia

27.9883, 0.3512, 0.3145

# Trichromacy



## Original Color

28.0537, 0.2837, 0.1986



## Protanomaly

27.2899, 0.2271, 0.1875



## Deuteranomaly

27.3785, 0.2451, 0.2109



## Tritanomaly

27.6036, 0.3246, 0.2656

# Monochromacy



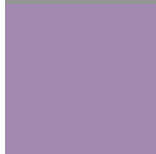
## Original Color

28.0537, 0.2837, 0.1986



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

28.5294, 0.3018, 0.2712

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.0537, 0.2837, 0.1986 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(188, 114, 223)` looks like.

```
.text, #text, p{  
    color:rgb(188, 114, 223)  
}
```

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(188, 114, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 114, 223) }
```

## Border

The CSS property to change the border of an element to Yxy 28.0537, 0.2837, 0.1986 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(188, 114, 223) }
```

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

```
.border{ border-color:rgb(188, 114, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 114, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 114, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 114, 223);  
box-shadow:4px 4px 4px 4px rgb(188, 114,  
223) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.0537, 0.2837, 0.1986 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 114, 223) }
```

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

```
.background{ background-color: rgb(188,  
114, 223) }
```

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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