

# Converting Colors

$Y_{xy}(29.7253, 0.2883, 0.2144)$

Have a look what the booklet for  
Yxy(29.7253, 0.2883, 0.2144)  
contains.

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# Color

**Yxy(29.7405, 0.2883, 0.2138)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB7BD9
RGB	187, 123, 217
RGB Percent	73%, 48%, 85%
CMY	0.2666, 0.5177, 0.1491
CMYK	0.14, 0.43, 0.00, 0.15
HSL	281°, 55%, 67%
HSV	281°, 43%, 85%
XYZ	40.1038, 29.7405, 69.2600
YIQ	152.8520, 7.9700, 42.8020

# Conversions

## Conversions Part 2

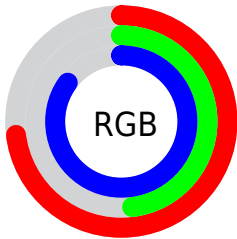
Format	Color
<b>RYB</b>	187, 123, 217
Decimal	12286937
CIELab	61.43, 41.27, -38.50
CIELCh	61, 56.442, 316.985
Yxy	29.7405, 0.2883, 0.2138
Android (android.graphics.Color)	4290477017 (0xFFBB7BD9)
YUV	152.8520, 31.6250, 29.9478
Hunter-Lab	54.5349, 35.8291, -37.1247

# Details

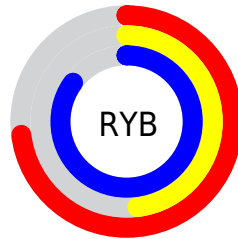
The Yxy color **29.7405, 0.2883, 0.2138** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **57.8139, 0.3268, 0.4551**, and the grayscale version is **31.6460, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.0768, 0.3085, 0.2508**, and **12.1489, 0.2778, 0.1839** is the 20% darker color. If you saturate the color by 10%, you get **24.0907, 0.2805, 0.1874**, and if you desaturate by 10%, it is **36.6277, 0.2953, 0.2413**.

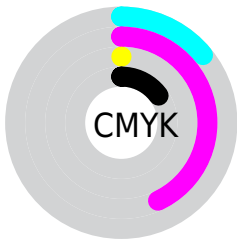
# Distribution



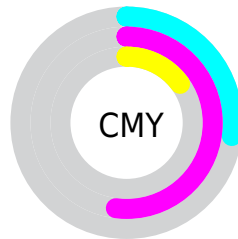
- Red (73%)
- Green (48%)
- Blue (85%)



- Red (73%)
- Yellow (48%)
- Blue (85%)



- Cyan (14%)
- Magenta (43%)
- Yellow (0%)
- Black (15%)




- Cyan (27%)
- Magenta (52%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.7405, 0.2883, 0.2138 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 29.7405, 0.2883, 0.2138 by changing the saturation by 10% instead.





 29.7405, 0.2883,  
0.2138


 29.7405, 0.2883,  
0.2138

300.6930, 0.3028,  
0.2697

 19.6417, 0.2840,  
0.2006


 59.2516, 0.2941,  
0.2336

 12.1349, 0.2782,  
0.1843


 79.4326, 0.2961,  
0.2412

 6.8356, 0.2699,  
0.1635


 103.7432, 0.2978,  
0.2476

 3.3595, 0.2574,  
0.1367

132.5677, 0.2991,  
0.2532

 1.3222, 0.2373,  
0.1017

166.2905, 0.3003,  
0.2581

 0.1583, 0.2088,  
0.0276

205.2961, 0.3013,

 0.0000, 0.0543,

0.2624

0.0000

249.9688, 0.3021,  
0.2663

0.0000, 0.0000,  
0.0000

29.7405, 0.2883,  
0.2138

29.7405, 0.2883,  
0.2138

24.0907, 0.2805,  
0.1874

36.6277, 0.2953,  
0.2413

19.5943, 0.2722,  
0.1634

44.8216, 0.3015,  
0.2688

16.1624, 0.2635,  
0.1428


54.3906, 0.3069,  
0.2956

13.6914, 0.2548,  
0.1267

65.3972, 0.3114,  
0.3210


12.0557, 0.2464,  
0.1155

77.9001, 0.3151,  
0.3446

 11.2889, 0.2410,  
0.1101

 91.9547, 0.3182,  
0.3664

 94.2652, 0.3225,  
0.3676

 95.4682, 0.3269,  
0.3671

 96.7174, 0.3314,  
0.3666

# Harmonies

## Analogous

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



29.7405, 0.2148, 0.1955



29.7405, 0.2883, 0.2138



29.7405, 0.3820, 0.2543

# Triad

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



29.7405, 0.2883, 0.2138



29.7405, 0.4654, 0.4377



29.7405, 0.1804, 0.3222

# Complementary

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



29.7405, 0.2883, 0.2138



57.8139, 0.3268, 0.4551

# 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.



29.7405, 0.2346, 0.4237



29.7405, 0.2883, 0.2138



29.7405, 0.3989, 0.4886

# Square

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



29.7405, 0.2883, 0.2138



29.7405, 0.4925, 0.3734



29.7405, 0.3148, 0.4921



29.7405, 0.1605, 0.2438



# Rectangle

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



29.7405, 0.2883, 0.2138



29.7405, 0.4397, 0.2904



29.7405, 0.3148, 0.4921



29.7405, 0.1947, 0.3555

# Sweetspot

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



29.7417, 0.2883, 0.2138



78.6939, 0.3070, 0.2961



32.4376, 0.2394, 0.2404



16.1465, 0.3059, 0.2902



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.



29.7417, 0.2883, 0.2138



35.3448, 0.2812, 0.1896



33.1456, 0.3333, 0.2387



13.0560, 0.3087, 0.3056



6.8938, 0.2422, 0.1108



0.4920, 0.2553, 0.1180



# Inverse Universe

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



31.2118, 0.3887, 0.2928



37.9817, 0.4140, 0.2859



55.6814, 0.2977, 0.4407



13.1196, 0.3242, 0.3216



9.2083, 0.5684, 0.2905

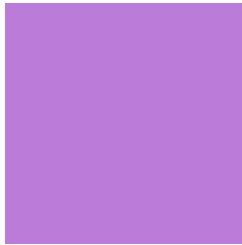


0.6120, 0.5219, 0.2649



# Previews

## White Background



This preview shows how the Yxy color 29.7405, 0.2883, 0.2138 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

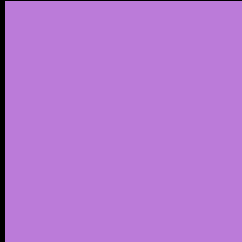
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 29.7405, 0.2883, 0.2138 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

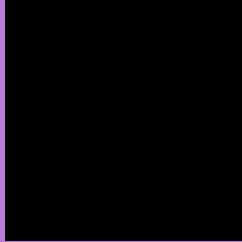
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.7405, 0.2883, 0.2138**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.7405, 0.2883, 0.2138.



This preview shows how white text looks on a background with the Yxy color 29.7405, 0.2883, 0.2138.

# 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

29.7405, 0.2883, 0.2138

### Protanopia

30.1913, 0.2216, 0.2067

### Deuteranopia

29.9060, 0.2412, 0.2355



## Tritanopia

29.6940, 0.3444, 0.3133

# Trichromacy



## Original Color

29.7405, 0.2883, 0.2138



## Protanomaly

29.4968, 0.2414, 0.2081



## Deuteranomaly

29.2350, 0.2558, 0.2249



## Tritanomaly

29.6548, 0.3229, 0.2729

# Monochromacy



## Original Color

29.7405, 0.2883, 0.2138



## Achromatopsia

31.8547, 0.3127, 0.3290



## Achromatomaly

30.4799, 0.3038, 0.2803

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.7405, 0.2883, 0.2138 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(187, 123, 217)` looks like.

```
.text, #text, p{  
    color:rgb(187, 123, 217)  
}
```

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(187, 123, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 123, 217) }
```

## Border

The CSS property to change the border of an element to Yxy 29.7405, 0.2883, 0.2138 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(187, 123, 217) }
```

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

```
.border{ border-color:rgb(187, 123, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 123, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 123, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 123, 217);  
box-shadow:4px 4px 4px 4px rgb(187, 123,  
217) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.7405, 0.2883, 0.2138 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 123, 217) }
```

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

```
.background{ background-color: rgb(187,  
123, 217) }
```

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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