

# Converting Colors

$Yxy(30.5862, 0.3037, 0.2365)$

Have a look what the booklet for  
Yxy(30.5862, 0.3037, 0.2365)  
contains.

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# Color

**Yxy(30.7836, 0.3038, 0.2368)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BD81CA
RGB	189, 129, 202
RGB Percent	74%, 51%, 79%
CMY	0.2588, 0.4941, 0.2079
CMYK	0.06, 0.36, 0.00, 0.21
HSL	289°, 41%, 65%
HSV	289°, 36%, 79%
XYZ	39.4935, 30.7836, 59.7212
YIQ	155.2620, 12.3270, 35.4230

# Conversions

## Conversions Part 2

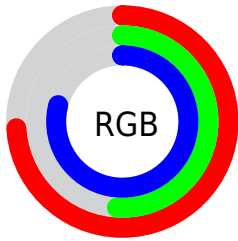
<b>Format</b>	<b>Color</b>
<b>RYB</b>	189, 129, 202
Decimal	12419530
CIELab	62.32, 35.50, -28.67
CIELCh	62, 45.633, 321.074
Yxy	30.7836, 0.3038, 0.2368
Android (android.graphics.Color)	4290609610 (0xFFBD81CA)
YUV	155.2620, 23.0418, 29.5882
Hunter-Lab	55.4830, 29.9634, -24.9810

# Details

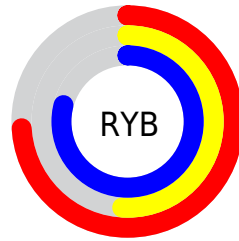
The Yxy color **30.7836, 0.3038, 0.2368** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **49.5645, 0.3172, 0.4339**, and the grayscale version is **32.7931, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.6798, 0.3091, 0.2570**, and **12.6552, 0.2980, 0.2107** is the 20% darker color. If you saturate the color by 10%, you get **25.5252, 0.3002, 0.2116**, and if you desaturate by 10%, it is **37.1077, 0.3069, 0.2629**.

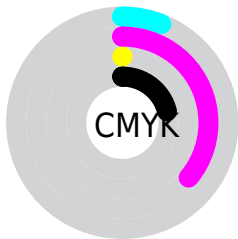
# Distribution



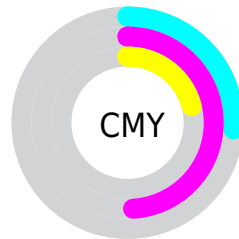
- Red (74%)
- Green (51%)
- Blue (79%)



- Red (74%)
- Yellow (51%)
- Blue (79%)



- Cyan (6%)
- Magenta (36%)
- Yellow (0%)
- Black (21%)




- Cyan (26%)
- Magenta (49%)
- Yellow (21%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.7836, 0.3038, 0.2368 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 30.7836, 0.3038, 0.2368 by changing the saturation by 10% instead.





 30.7836, 0.3038,  
0.2368


 30.7836, 0.3038,  
0.2368


305.5401, 0.3097,  
0.2824


 20.4341, 0.3018,  
0.2257


 60.8992, 0.3063,  
0.2532

 12.7110, 0.2991,  
0.2117


 81.4341, 0.3071,  
0.2594

 7.2298, 0.2949,  
0.1935


 106.1330, 0.3078,  
0.2647

 3.6063, 0.2882,  
0.1691

135.3802, 0.3084,  
0.2692

 1.4558, 0.2763,  
0.1352

169.5601, 0.3088,  
0.2731

 0.2573, 0.2607,  
0.0588

209.0571, 0.3092,

 0.0000, 0.0516,

0.2766

0.0000

254.2557, 0.3095,  
0.2797

0.0000, 0.0000,  
0.0000

30.7836, 0.3038,  
0.2368

30.7836, 0.3038,  
0.2368

25.5252, 0.3002,  
0.2116

37.1077, 0.3069,  
0.2629

21.2661, 0.2962,  
0.1883

44.5507, 0.3095,  
0.2889

17.9388, 0.2918,  
0.1680


53.1671, 0.3116,  
0.3141

15.4655, 0.2872,  
0.1515


63.0066, 0.3133,  
0.3381

13.7560, 0.2825,  
0.1394

74.1160, 0.3146,  
0.3606


 12.6961, 0.2778,  
0.1317

 86.5397, 0.3156,  
0.3813

 12.3748, 0.2760,  
0.1294

 90.1012, 0.3176,  
0.3856

 90.6483, 0.3198,  
0.3853

 91.2075, 0.3221,  
0.3849

# Harmonies

## Analogous

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



30.7836, 0.2396, 0.2186



30.7836, 0.3038, 0.2368



30.7836, 0.3789, 0.2737

# Triad

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



30.7836, 0.3038, 0.2368



30.7836, 0.4335, 0.4286



30.7836, 0.2001, 0.3154

# Complementary

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



30.7836, 0.3038, 0.2368



49.5645, 0.3172, 0.4339

# 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.



30.7836, 0.2430, 0.3930



30.7836, 0.3038, 0.2368



30.7836, 0.3775, 0.4613

# Square

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



30.7836, 0.3038, 0.2368



30.7836, 0.4581, 0.3774



30.7836, 0.3077, 0.4518



30.7836, 0.1857, 0.2550



# Rectangle

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



30.7836, 0.3038, 0.2368



30.7836, 0.4222, 0.3057



30.7836, 0.3077, 0.4518



30.7836, 0.2113, 0.3407

# Sweetspot

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



30.7849, 0.3038, 0.2368



82.4567, 0.3106, 0.3016



28.3930, 0.2503, 0.2414



17.2242, 0.3103, 0.2981



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.



30.7849, 0.3038, 0.2368



45.3242, 0.3012, 0.2179



31.5061, 0.3407, 0.2662



11.2989, 0.3110, 0.3060



8.0003, 0.2766, 0.1298



0.4398, 0.2858, 0.1348



# Inverse Universe

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



30.2095, 0.3833, 0.3122



44.3293, 0.4054, 0.3088



49.1681, 0.2929, 0.4018



11.2457, 0.3263, 0.3249



8.1711, 0.6115, 0.3142



0.4317, 0.5595, 0.2856



# Previews

## White Background



This preview shows how the Yxy color 30.7836, 0.3038, 0.2368 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

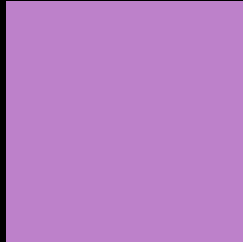
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.7836, 0.3038, 0.2368 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

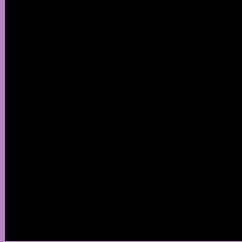
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.7836, 0.3038, 0.2368**

## Background



This preview shows how black text looks on a background with the Yxy color 30.7836, 0.3038, 0.2368.



This preview shows how white text looks on a background with the Yxy color 30.7836, 0.3038, 0.2368.

# 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

30.7836, 0.3038, 0.2368

### Protanopia

31.1718, 0.2422, 0.2336

### Deuteranopia

31.1476, 0.2632, 0.2581



## Tritanopia

30.9033, 0.3484, 0.3150

# Trichromacy



**Original Color**

30.7836, 0.3038, 0.2368

**Protanomaly**

30.6788, 0.2612, 0.2335

**Deuteranomaly**

30.7386, 0.2771, 0.2499

**Tritanomaly**

30.7872, 0.3320, 0.2842

# Monochromacy



**Original Color**

30.7836, 0.3038, 0.2368

**Achromatopsia**

32.7778, 0.3127, 0.3290

**Achromatomaly**

31.7518, 0.3094, 0.2918

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.7836, 0.3038, 0.2368 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(189, 129, 202)` looks like.

```
.text, #text, p{  
    color:rgb(189, 129, 202)  
}
```

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(189, 129, 202) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 129, 202) }
```

## Border

The CSS property to change the border of an element to Yxy 30.7836, 0.3038, 0.2368 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(189, 129, 202) }
```

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

```
.border{ border-color:rgb(189, 129, 202) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 129, 202)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 129, 202); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 129, 202);  
box-shadow:4px 4px 4px 4px rgb(189, 129,  
202) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.7836, 0.3038, 0.2368 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 129, 202) }
```

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

```
.background{ background-color: rgb(189,  
129, 202) }
```

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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