

# Converting Colors

$Y_{xy}(38.1008, 0.2924, 0.2505)$

Have a look what the booklet for  
Yxy(38.1008, 0.2924, 0.2505)  
contains.

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# Color

**Yxy(38.1816, 0.2927, 0.2512)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD98D7
RGB	189, 152, 215
RGB Percent	74%, 60%, 84%
CMY	0.2587, 0.4040, 0.1568
CMYK	0.12, 0.29, 0.00, 0.16
HSL	275°, 44%, 72%
HSV	275°, 29%, 84%
XYZ	44.4895, 38.1816, 69.3257
YIQ	170.2450, 1.8290, 27.4370

# Conversions

## Conversions Part 2

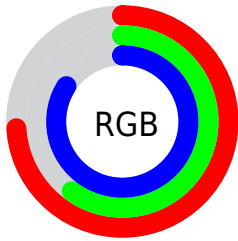
<b>Format</b>	<b>Color</b>
<b>RYB</b>	189, 152, 215
Decimal	12425431
CIELab	68.15, 25.48, -26.96
CIELCh	68, 37.102, 313.384
Yxy	38.1816, 0.2927, 0.2512
Android (android.graphics.Color)	4290615511 (0xFFBD98D7)
YUV	170.2450, 22.0642, 16.4481
Hunter-Lab	61.7913, 20.3846, -23.2656

# Details

The Yxy color **38.1816, 0.2927, 0.2512** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **60.3362, 0.3277, 0.4092**, and the grayscale version is **40.2167, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.4385, 0.3084, 0.2812**, and **16.9963, 0.2859, 0.2315** is the 20% darker color. If you saturate the color by 10%, you get **30.7266, 0.2838, 0.2225**, and if you desaturate by 10%, it is **46.9741, 0.3006, 0.2792**.

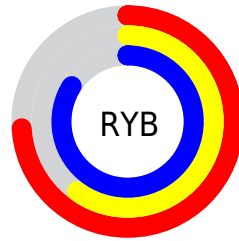
# Distribution



Red (74%)

Green (60%)

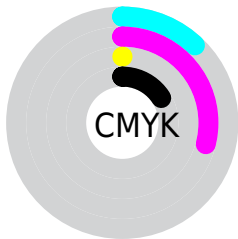
Blue (84%)



Red (74%)

Yellow (60%)

Blue (84%)

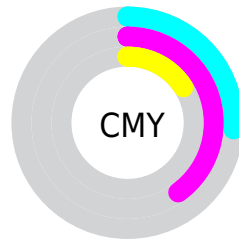


Cyan (12%)

Magenta (29%)

Yellow (0%)

Black (16%)



Cyan (26%)

Magenta (40%)


Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.1816, 0.2927, 0.2512 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 38.1816, 0.2927, 0.2512 by changing the saturation by 10% instead.





 38.1816, 0.2927,  
0.2512


 38.1816, 0.2927,  
0.2512


338.3983, 0.3037,  
0.2890

 26.1237, 0.2897,  
0.2421


 72.3864, 0.2969,  
0.2647

 16.9162, 0.2857,  
0.2308


 95.3020, 0.2984,  
0.2698

 10.1747, 0.2803,  
0.2161


122.6057, 0.2996,  
0.2742

 5.5150, 0.2723,  
0.1965

154.6818, 0.3007,  
0.2780

 2.5525, 0.2597,  
0.1692

191.9147, 0.3016,  
0.2813

 0.9028, 0.2380,  
0.1298

234.6889, 0.3024,


 0.0000, 0.1883,


0.2842

0.0000


283.3886, 0.3031,  
0.2867

 0.0000, 0.0000,  
0.0000


 38.1816, 0.2927,  
0.2512


 38.1816, 0.2927,  
0.2512


 30.7266, 0.2838,  
0.2225


 46.9741, 0.3006,  
0.2792

 24.5348, 0.2738,  
0.1942

 57.1637, 0.3073,  
0.3058


 19.5314, 0.2632,  
0.1674

 68.8123, 0.3131,  
0.3306


 15.6321, 0.2520,  
0.1435


 81.9765, 0.3179,  
0.3534


 12.7405, 0.2409,  
0.1237


 93.8089, 0.3223,  
0.3698

 10.7432, 0.2302,  
0.1089

 95.3408, 0.3280,  
0.3691

 9.4527, 0.2203,  
0.0990

 96.9486, 0.3338,  
0.3684

 9.3743, 0.2196,  
0.0984

 97.6872, 0.3363,  
0.3681

# Harmonies

## Analogous

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



38.1816, 0.2463, 0.2416



38.1816, 0.2927, 0.2512



38.1816, 0.3491, 0.2775

# Triad

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



38.1816, 0.2927, 0.2512



38.1816, 0.4137, 0.3992



38.1816, 0.2323, 0.3347

# Complementary

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



38.1816, 0.2927, 0.2512



60.3362, 0.3277, 0.4092

# 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.



38.1816, 0.2720, 0.3899



38.1816, 0.2927, 0.2512



38.1816, 0.3770, 0.4262

# Square

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



38.1816, 0.2927, 0.2512



38.1816, 0.4227, 0.3586



38.1816, 0.3249, 0.4253



38.1816, 0.2140, 0.2838



# Rectangle

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



38.1816, 0.2927, 0.2512



38.1816, 0.3841, 0.3019



38.1816, 0.3249, 0.4253



38.1816, 0.2434, 0.3537

# Sweetspot

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



38.1832, 0.2927, 0.2512



84.4716, 0.3075, 0.3064



43.5209, 0.2653, 0.2804



17.5791, 0.3066, 0.3026



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.



38.1832, 0.2927, 0.2512



49.3413, 0.2874, 0.2340



41.5428, 0.3208, 0.2620



12.3658, 0.3073, 0.3056



5.6694, 0.2210, 0.0991



0.3899, 0.2380, 0.1085



# Inverse Universe

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



40.1141, 0.3509, 0.2977



52.7310, 0.3618, 0.2910



57.7260, 0.3054, 0.4067



12.5048, 0.3227, 0.3194



9.0884, 0.5315, 0.2702



0.5644, 0.4866, 0.2454



# Previews

## White Background



This preview shows how the Yxy color 38.1816, 0.2927, 0.2512 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

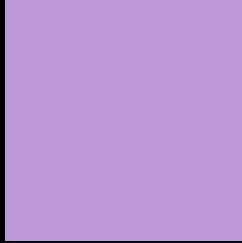
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.1816, 0.2927, 0.2512 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 38.1816, 0.2927, 0.2512**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.1816, 0.2927, 0.2512.



This preview shows how white text looks on a background with the Yxy color 38.1816, 0.2927, 0.2512.

# 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

38.1816, 0.2927, 0.2512

### Protanopia

38.3223, 0.2552, 0.2500

### Deuteranopia

38.2676, 0.2690, 0.2626



## Tritanopia

38.1038, 0.3221, 0.3115

# Trichromacy



**Original Color**

38.1816, 0.2927, 0.2512

**Protanomaly**

38.2546, 0.2678, 0.2503

**Deuteranomaly**

38.0863, 0.2767, 0.2577

**Tritanomaly**

38.0591, 0.3118, 0.2884

# Monochromacy



**Original Color**

38.1816, 0.2927, 0.2512

**Achromatopsia**

40.1978, 0.3127, 0.3290

**Achromatomaly**

39.0867, 0.3059, 0.2982

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.1816, 0.2927, 0.2512 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, 152, 215)` looks like.

```
.text, #text, p{  
    color:rgb(189, 152, 215)  
}
```

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, 152, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 152, 215) }
```

## Border

The CSS property to change the border of an element to Yxy 38.1816, 0.2927, 0.2512 is called "border". The border property can be set on classes, ids or directly on the HTML element.

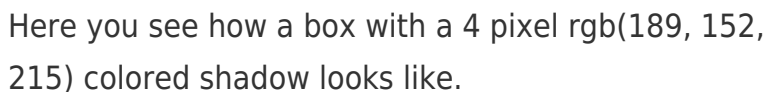
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(189, 152, 215) }
```

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

```
.border{ border-color:rgb(189, 152, 215) }
```

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



Here you see how a box with a 4 pixel `rgb(189, 152, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(189, 152, 215); -webkit-box-shadow:4px 4px 4px 4px rgb(189, 152, 215); box-shadow:4px 4px 4px 4px rgb(189, 152, 215) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.1816, 0.2927, 0.2512 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 152, 215) }
```

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

```
.background{ background-color: rgb(189,  
152, 215) }
```

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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