

# Converting Colors

$Y_{xy}(46.2374, 0.2873, 0.2708)$

Have a look what the booklet for  
Yxy(46.2374, 0.2873, 0.2708)  
contains.

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# Color

**Yxy(46.2374, 0.2873, 0.2708)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BCAEDE
RGB	188, 174, 222
RGB Percent	74%, 68%, 87%
CMY	0.2629, 0.3176, 0.1294
CMYK	0.15, 0.22, 0.00, 0.13
HSL	257°, 42%, 78%
HSV	257°, 22%, 87%
XYZ	49.0547, 46.2374, 75.4517
YIQ	183.6580, -7.0640, 17.8960

# Conversions

## Conversions Part 2

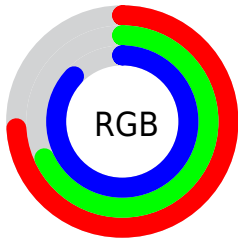
Format	Color
R <sub>Y</sub> B	188, 174, 222
Decimal	12365534
CIE Lab	73.70, 14.43, -22.33
CIE LCh	74, 26.588, 302.876
Yxy	46.2374, 0.2873, 0.2708
Android (android.graphics.Color)	4290555614 (0xFFBCAEDE)
YUV	183.6580, 18.9026, 3.8079
Hunter-Lab	67.9981, 9.7755, -18.1904

# Details

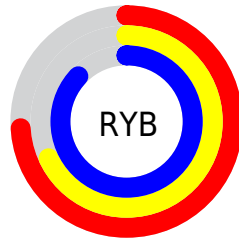
The Yxy color  $46.2374, 0.2873, 0.2708$  is a light color, and the websafe version is hex  $9999CC$ . A complement of this color would be  $68.7211, 0.3346, 0.3846$ , and the grayscale version is  $47.6304, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $82.6711, 0.3072, 0.3033$ , and  $21.7774, 0.2794, 0.2560$  is the 20% darker color. If you saturate the color by 10%, you get  $36.4662, 0.2729, 0.2401$ , and if you desaturate by 10%, it is  $57.6483, 0.3000, 0.2993$ .

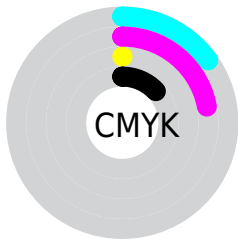
# Distribution



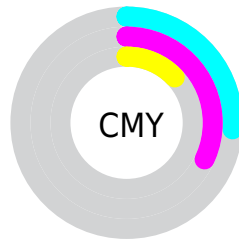
- Red (74%)
- Green (68%)
- Blue (87%)



- Red (74%)
- Yellow (68%)
- Blue (87%)



- Cyan (15%)
- Magenta (22%)
- Yellow (0%)
- Black (13%)



- Cyan (26%)
- Magenta (32%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.2374, 0.2873, 0.2708 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 46.2374, 0.2873, 0.2708 by changing the saturation by 10% instead.



■ 46.2374, 0.2873,  
0.2708

■ 46.2374, 0.2873,  
0.2708

371.7623, 0.3002,  
0.2988

■ 32.4332, 0.2840,  
0.2641

■ 84.5742, 0.2920,  
0.2807

■ 21.6926, 0.2799,  
0.2558

109.8755, 0.2938,  
0.2845

■ 13.6312, 0.2743,  
0.2450

139.7781, 0.2953,  
0.2878

■ 7.8646, 0.2665,  
0.2306

174.6662, 0.2966,  
0.2906

■ 4.0084, 0.2550,  
0.2105

214.9243, 0.2977,  
0.2931

■ 1.6783, 0.2366,  
0.1807

260.9367, 0.2986,

■ 0.4095, 0.2072,

0.2952

0.1144

313.0879, 0.2995,  
0.2971

0.0000, 0.0000,  
0.0000

46.2374, 0.2873,  
0.2708

46.2374, 0.2873,  
0.2708

36.4662, 0.2729,  
0.2401

57.6483, 0.3000,  
0.2993

28.2524, 0.2570,  
0.2079

70.7646, 0.3111,  
0.3251

21.5151, 0.2399,  
0.1754

85.6553, 0.3206,  
0.3482

16.1636, 0.2224,  
0.1443

97.2946, 0.3295,  
0.3614

12.0970, 0.2054,  
0.1166

98.0544, 0.3321,  
0.3611

■ 9.2002, 0.1898,  
0.0942

■ 7.3361, 0.1768,  
0.0784

■ 6.3830, 0.1681,  
0.0699

# Harmonies

## Analogous

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



46.2374, 0.2587, 0.2694



46.2374, 0.2873, 0.2708



46.2374, 0.3244, 0.2856

# Triad

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



46.2374, 0.2873, 0.2708



46.2374, 0.3856, 0.3698



46.2374, 0.2661, 0.3466

# Complementary

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



46.2374, 0.2873, 0.2708



68.7211, 0.3346, 0.3846

# 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.



46.2374, 0.2980, 0.3790



46.2374, 0.2873, 0.2708



46.2374, 0.3675, 0.3907

# Square

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



46.2374, 0.2873, 0.2708



46.2374, 0.3831, 0.3406



46.2374, 0.3352, 0.3953



46.2374, 0.2471, 0.3107



# Rectangle

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



46.2374, 0.2873, 0.2708



46.2374, 0.3491, 0.3013



46.2374, 0.3352, 0.3953



46.2374, 0.2756, 0.3585

# Sweetspot

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



46.2393, 0.2873, 0.2708



88.6234, 0.3064, 0.3140



59.5866, 0.2795, 0.3125



18.7153, 0.3057, 0.3123



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.



46.2393, 0.2873, 0.2708



56.8930, 0.2809, 0.2570



49.4910, 0.3065, 0.2740



13.4354, 0.3026, 0.3051



3.8406, 0.1694, 0.0707



0.3112, 0.1858, 0.0797



# Inverse Universe

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



50.3651, 0.3266, 0.2903



63.5662, 0.3302, 0.2819



65.5449, 0.3172, 0.3877



13.8641, 0.3182, 0.3125



10.6996, 0.4108, 0.2036



0.7570, 0.3937, 0.1942



# Previews

## White Background



This preview shows how the Yxy color 46.2374, 0.2873, 0.2708 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

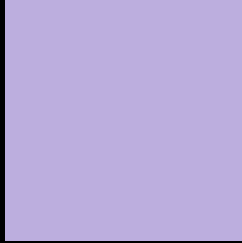
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 46.2374, 0.2873, 0.2708 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

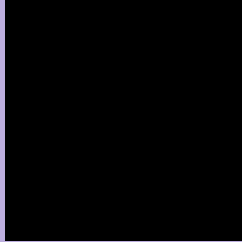
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 46.2374, 0.2873, 0.2708**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.2374, 0.2873, 0.2708.



This preview shows how white text looks on a background with the Yxy color 46.2374, 0.2873, 0.2708.

# 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

46.2374, 0.2873, 0.2708

### Protanopia

46.2772, 0.2713, 0.2704

### Deuteranopia

46.1297, 0.2804, 0.2744



## Tritanopia

46.1577, 0.3051, 0.3110

# Trichromacy



## Original Color

46.2374, 0.2873, 0.2708

## Protanomaly

46.2276, 0.2769, 0.2698

## Deuteranomaly

46.2162, 0.2834, 0.2736

## Tritanomaly

46.1182, 0.2983, 0.2950

# Monochromacy



## Original Color

46.2374, 0.2873, 0.2708

## Achromatopsia

47.9320, 0.3127, 0.3290

## Achromatomaly

47.0340, 0.3029, 0.3062

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.2374, 0.2873, 0.2708 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, 174, 222)` looks like.

```
.text, #text, p{  
    color:rgb(188, 174, 222)  
}
```

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, 174, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 174, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 46.2374, 0.2873, 0.2708 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, 174, 222) }
```

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

```
.border{ border-color:rgb(188, 174, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 174, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 174, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 174, 222);  
box-shadow:4px 4px 4px 4px rgb(188, 174,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.2374, 0.2873, 0.2708 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 174, 222) }
```

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

```
.background{ background-color: rgb(188,  
174, 222) }
```

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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