

# Converting Colors

$Y_{xy}(50.1335, 0.2936, 0.2679)$

Have a look what the booklet for  
Yxy(50.1335, 0.2936, 0.2679)  
contains.

<b>Yxy(50.0512, 0.2937, 0.2670)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(50.0512, 0.2937, 0.2670)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCB1E7
RGB	204, 177, 231
RGB Percent	80%, 69%, 91%
CMY	0.1998, 0.3059, 0.0942
CMYK	0.12, 0.23, 0.00, 0.09
HSL	270°, 53%, 80%
HSV	270°, 23%, 91%
XYZ	55.0563, 50.0512, 82.3502
YIQ	191.2290, -1.2420, 22.5180

# Conversions

## Conversions Part 2

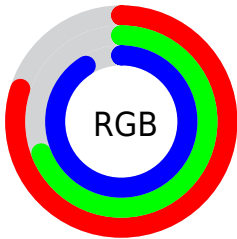
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	204, 177, 231
Decimal	13414887
CIE <sub>Lab</sub>	76.10, 19.81, -23.43
CIE <sub>LCh</sub>	76, 30.682, 310.223
Yxy	50.0512, 0.2937, 0.2670
Android (android.graphics.Color)	4291604967 (0xFFCCB1E7)
YUV	191.2290, 19.6071, 11.2002
Hunter-Lab	70.7469, 15.1045, -19.4914

# Details

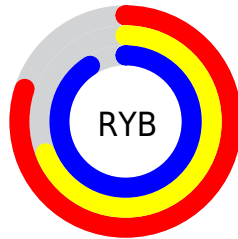
The Yxy color  $50.0512, 0.2937, 0.2670$  is a light color, and the websafe version is hex `CC99CC`. A complement of this color would be  $73.1453, 0.3283, 0.3911$ , and the grayscale version is  $52.1285, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $86.7578, 0.3137, 0.3078$ , and  $23.9000, 0.2879, 0.2517$  is the 20% darker color. If you saturate the color by 10%, you get  $40.1194, 0.2834, 0.2377$ , and if you desaturate by 10%, it is  $61.6520, 0.3027, 0.2948$ .

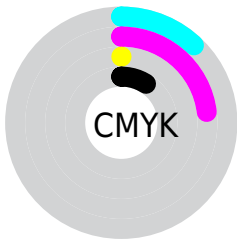
# Distribution



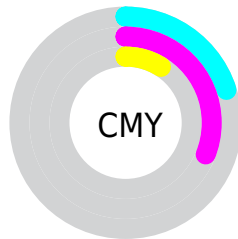
- Red (80%)
- Green (69%)
- Blue (91%)



- Red (80%)
- Yellow (69%)
- Blue (91%)



- Cyan (12%)
- Magenta (23%)
- Yellow (0%)
- Black (9%)




- Cyan (20%)
- Magenta (31%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.0512, 0.2937, 0.2670 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 50.0512, 0.2937, 0.2670 by changing the saturation by 10% instead.





 50.0512, 0.2937,  
0.2670

 50.0512, 0.2937,  
0.2670


386.8661, 0.3034,  
0.2963

 35.4541, 0.2912,  
0.2602


 90.2507, 0.2973,  
0.2772

 24.0129, 0.2881,  
0.2518


116.6219, 0.2986,  
0.2812

 15.3432, 0.2838,  
0.2410


147.6866, 0.2997,  
0.2846

 9.0606, 0.2779,  
0.2269

183.8292, 0.3007,  
0.2875

 4.7807, 0.2693,  
0.2076

225.4340, 0.3015,  
0.2901

 2.1192, 0.2554,  
0.1799

272.8855, 0.3022,

 0.6754, 0.2315,

0.2924

0.1349

326.5681, 0.3029,  
0.2944

0.0000, 0.0584,  
0.0000

0.0000, 0.0000,  
0.0000

50.0512, 0.2937,  
0.2670

50.0512, 0.2937,  
0.2670

40.1194, 0.2834,  
0.2377

61.6520, 0.3027,  
0.2948

31.7700, 0.2719,  
0.2078

74.9902, 0.3104,  
0.3207

24.9180, 0.2594,  
0.1785

90.1381, 0.3169,  
0.3444

19.4674, 0.2462,  
0.1511

97.6387, 0.3237,  
0.3525

■ 15.3109, 0.2329,  
0.1271

■ 98.5488, 0.3268,  
0.3523

■ 12.3247, 0.2201,  
0.1080

■ 10.3592, 0.2083,  
0.0945

■ 9.4658, 0.2012,  
0.0882

# Harmonies

## Analogous

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



50.0512, 0.2588, 0.2614



50.0512, 0.2937, 0.2670



50.0512, 0.3362, 0.2865

# Triad

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



50.0512, 0.2937, 0.2670



50.0512, 0.3915, 0.3812



50.0512, 0.2537, 0.3385

# Complementary

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



50.0512, 0.2937, 0.2670



73.1453, 0.3283, 0.3911

# 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.



50.0512, 0.2863, 0.3778



50.0512, 0.2937, 0.2670



50.0512, 0.3662, 0.4016

# Square

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



50.0512, 0.2937, 0.2670



50.0512, 0.3949, 0.3498



50.0512, 0.3274, 0.4017



50.0512, 0.2370, 0.2993



# Rectangle

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



50.0512, 0.2937, 0.2670



50.0512, 0.3629, 0.3054



50.0512, 0.3274, 0.4017



50.0512, 0.2631, 0.3524

# Sweetspot

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



50.0533, 0.2937, 0.2670



87.4855, 0.3077, 0.3115



58.2946, 0.2756, 0.2968



18.5057, 0.3072, 0.3100



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.



50.0533, 0.2937, 0.2670



56.4547, 0.2890, 0.2532



54.1954, 0.3154, 0.2710



14.2402, 0.3059, 0.3053



5.3812, 0.2028, 0.0891



0.4529, 0.2186, 0.0978



# Inverse Universe

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



52.7827, 0.3375, 0.2991



60.5009, 0.3440, 0.2927



69.6644, 0.3096, 0.3948



14.4873, 0.3215, 0.3173



10.2462, 0.4959, 0.2505

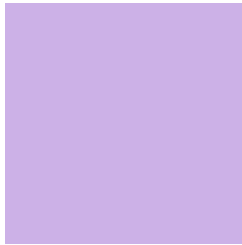


0.7759, 0.4635, 0.2327



# Previews

## White Background



This preview shows how the Yxy color 50.0512, 0.2937, 0.2670 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

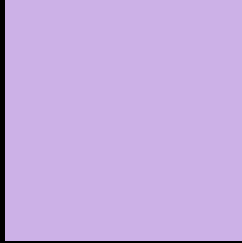
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.0512, 0.2937, 0.2670 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

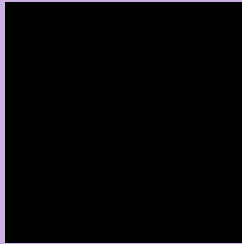
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 50.0512, 0.2937, 0.2670**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.0512, 0.2937, 0.2670.



This preview shows how white text looks on a background with the Yxy color 50.0512, 0.2937, 0.2670.

# 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

50.0512, 0.2937, 0.2670

### Protanopia

50.3462, 0.2687, 0.2677

### Deuteranopia

50.3084, 0.2801, 0.2740



## Tritanopia

50.0403, 0.3152, 0.3119

# Trichromacy



**Original Color**

50.0512, 0.2937, 0.2670

**Protanomaly**

50.3042, 0.2775, 0.2675

**Deuteranomaly**

49.9674, 0.2852, 0.2712

**Tritanomaly**

50.0687, 0.3076, 0.2955

# Monochromacy



**Original Color**

50.0512, 0.2937, 0.2670

**Achromatopsia**

52.0996, 0.3127, 0.3290

**Achromatomaly**

51.3098, 0.3057, 0.3048

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.0512, 0.2937, 0.2670 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(204, 177, 231)` looks like.

```
.text, #text, p{  
    color:rgb(204, 177, 231)  
}
```

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(204, 177, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 177, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 50.0512, 0.2937, 0.2670 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(204, 177, 231) }
```

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

```
.border{ border-color:rgb(204, 177, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 177, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 177, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 177, 231);  
box-shadow:4px 4px 4px 4px rgb(204, 177,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.0512, 0.2937, 0.2670 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 177, 231) }
```

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

```
.background{ background-color: rgb(204,  
177, 231) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor