

# Converting Colors

$Y_{xy}(18.3834, 0.2900, 0.1841)$

Have a look what the booklet for  
Yxy(18.3834, 0.2900, 0.1841)  
contains.

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# Color

**Yxy(18.3616, 0.2895, 0.1842)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A853C1
RGB	168, 83, 193
RGB Percent	66%, 33%, 76%
CMY	0.3414, 0.6743, 0.2432
CMYK	0.13, 0.57, 0.00, 0.24
HSL	286°, 47%, 54%
HSV	286°, 57%, 76%
XYZ	28.8582, 18.3616, 52.4631
YIQ	120.9550, 15.3500, 52.2300

# Conversions

## Conversions Part 2

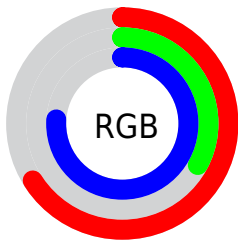
Format	Color
R <sub>Y</sub> B	168, 83, 193
Decimal	11031489
CIE Lab	49.93, 51.87, -43.12
CIE LCh	50, 67.450, 320.264
Yxy	18.3616, 0.2895, 0.1842
Android (android.graphics.Color)	4289221569 (0xFFA853C1)
YUV	120.9550, 35.5182, 41.2585
Hunter-Lab	42.8504, 45.2250, -42.5953

# Details

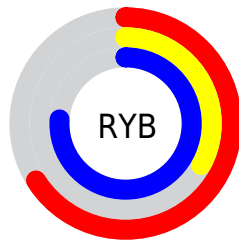
The Yxy color **18.3616, 0.2895, 0.1842** is a light color, and the websafe version is hex **CC66CC**. The color can be described as light muted purple. A complement of this color would be **41.9485, 0.3207, 0.5015**, and the grayscale version is **18.9878, 0.3127, 0.3290**.

A 20% lighter version of the original color is **40.5180, 0.2961, 0.2101**, and **6.2053, 0.2758, 0.1440** is the 20% darker color. If you saturate the color by 10%, you get **15.3335, 0.2837, 0.1631**, and if you desaturate by 10%, it is **22.2293, 0.2949, 0.2081**.

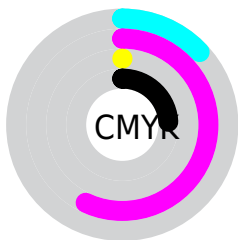
# Distribution



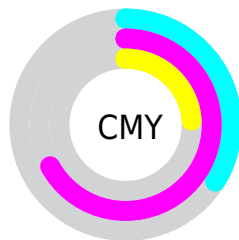
- Red (66%)
- Green (33%)
- Blue (76%)



- Red (66%)
- Yellow (33%)
- Blue (76%)



- Cyan (13%)
- Magenta (57%)
- Yellow (0%)
- Black (24%)




- Cyan (34%)
- Magenta (67%)
- Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.3616, 0.2895, 0.1842 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 18.3616, 0.2895, 0.1842 by changing the saturation by 10% instead.





 18.3616, 0.2895,  
0.1842


 18.3616, 0.2895,  
0.1842


242.9014, 0.3054,  
0.2571


 11.2099, 0.2840,  
0.1665


 40.6525, 0.2964,  
0.2105


 6.2082, 0.2760,  
0.1445


 56.5605, 0.2987,  
0.2204

 2.9721, 0.2637,  
0.1167


 76.1561, 0.3004,  
0.2289

 1.1172, 0.2438,  
0.0817

 99.8237, 0.3019,  
0.2361

 0.0000, 0.2177,  
0.0000

 127.9476, 0.3030,  
0.2424

 0.0000, 0.0910,  
0.0000

160.9122, 0.3040,

 0.0000, 0.0000,

0.2480

0.0000

199.1020, 0.3048,  
0.2528

■ 18.3616, 0.2895,  
0.1842

■ 18.3616, 0.2895,  
0.1842

■ 15.3335, 0.2837,  
0.1631

■ 22.2293, 0.2949,  
0.2081

■ 13.0725, 0.2776,  
0.1459

■ 26.9966, 0.2998,  
0.2339

■ 11.4976, 0.2715,  
0.1331

■ 32.7203, 0.3041,  
0.2603

■ 10.4970, 0.2655,  
0.1248

■ 39.4523, 0.3078,  
0.2866

■ 10.2439, 0.2637,  
0.1226

■ 47.2402, 0.3109,  
0.3121

■ 56.1289, 0.3134,  
0.3361

■ 66.1606, 0.3155,  
0.3586

■ 77.3752, 0.3170,  
0.3792

■ 88.7054, 0.3184,  
0.3964

# Harmonies

## Analogous

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



18.3616, 0.1909, 0.1584



18.3616, 0.2895, 0.1842



18.3616, 0.4215, 0.2361

# Triad

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



18.3616, 0.2895, 0.1842



18.3616, 0.4981, 0.4657



18.3616, 0.1331, 0.2982

# Complementary

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



18.3616, 0.2895, 0.1842



41.9485, 0.3207, 0.5015

# 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.



18.3616, 0.1925, 0.4504



18.3616, 0.2895, 0.1842



18.3616, 0.4016, 0.5465

# Square

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



18.3616, 0.2895, 0.1842



18.3616, 0.5527, 0.3807



18.3616, 0.2918, 0.5619



18.3616, 0.1174, 0.2023



# Rectangle

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



18.3616, 0.2895, 0.1842



18.3616, 0.5007, 0.2807



18.3616, 0.2918, 0.5619



18.3616, 0.1476, 0.3448

# Sweetspot

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



18.3624, 0.2895, 0.1842



70.2894, 0.3077, 0.2859



16.5625, 0.2121, 0.1885



14.5265, 0.3070, 0.2806



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



18.3624, 0.2895, 0.1842



26.5098, 0.2824, 0.1592



20.1960, 0.3562, 0.2266



10.1282, 0.3102, 0.3061



6.8521, 0.2645, 0.1231



0.3251, 0.2777, 0.1304



# Inverse Universe

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



18.6120, 0.4430, 0.2967



27.3616, 0.4892, 0.2937



41.1498, 0.2882, 0.4636



10.1146, 0.3254, 0.3238



7.6716, 0.5974, 0.3065



0.3423, 0.5331, 0.2711



# Previews

## White Background



This preview shows how the Yxy color 18.3616, 0.2895, 0.1842 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

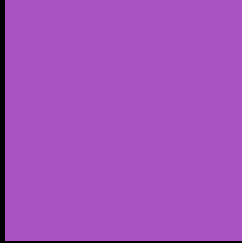
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Xy color 18.3616, 0.2895, 0.1842 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

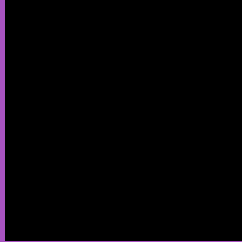
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 18.3616, 0.2895, 0.1842**

## Background



This preview shows how black text looks on a background with the Yxy color 18.3616, 0.2895, 0.1842.

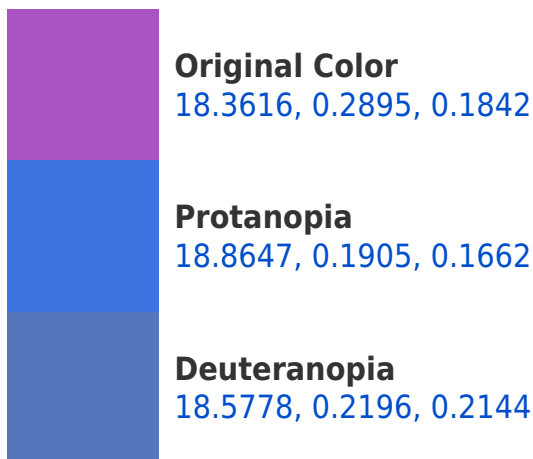


This preview shows how white text looks on a background with the Yxy color 18.3616, 0.2895, 0.1842.

# 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





## Tritanopia

18.4411, 0.3769, 0.3176

# Trichromacy



**Original Color**

18.3616, 0.2895, 0.1842

**Protanomaly**

17.4141, 0.2120, 0.1662

**Deuteranomaly**

17.5596, 0.2384, 0.1967

**Tritanomaly**

18.0495, 0.3434, 0.2606

# Monochromacy



**Original Color**

18.3616, 0.2895, 0.1842

**Achromatopsia**

19.1202, 0.3127, 0.3290

**Achromatomaly**

18.0252, 0.3044, 0.2612

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.3616, 0.2895, 0.1842 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(168, 83, 193)` looks like.

```
.text, #text, p{  
    color:rgb(168, 83, 193)  
}
```

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(168, 83, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 83, 193) }
```

## Border

The CSS property to change the border of an element to Yxy 18.3616, 0.2895, 0.1842 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(168, 83, 193) }
```

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

```
.border{ border-color:rgb(168, 83, 193) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 83, 193)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 83, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 83, 193);  
box-shadow:4px 4px 4px 4px rgb(168, 83,  
193) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.3616, 0.2895, 0.1842 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 83, 193) }
```

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

```
.background{ background-color: rgb(168, 83,  
193) }
```

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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