

# Converting Colors

$Y_{xy}(19.1303, 0.2994, 0.2072)$

Have a look what the booklet for  
Yxy(19.1303, 0.2994, 0.2072)  
contains.

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**Color**

**Yxy(19.1233, 0.3001, 0.2074)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A55DB4
RGB	165, 93, 180
RGB Percent	65%, 36%, 71%
CMY	0.3529, 0.6353, 0.2941
CMYK	0.08, 0.48, 0.00, 0.29
HSL	290°, 37%, 54%
HSV	290°, 48%, 71%
XYZ	27.6707, 19.1233, 45.4109
YIQ	124.4460, 14.9850, 42.3210

# Conversions

## Conversions Part 2

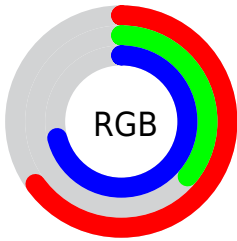
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	165, 93, 180
Decimal	10837428
CIE <sub>Lab</sub>	50.83, 43.32, -34.20
CIE <sub>LCh</sub>	51, 55.192, 321.708
Yxy	19.1233, 0.3001, 0.2074
Android (android.graphics.Color)	4289027508 (0xFFA55DB4)
YUV	124.4460, 27.3881, 35.5659
Hunter-Lab	43.7302, 36.4197, -30.9576

# Details

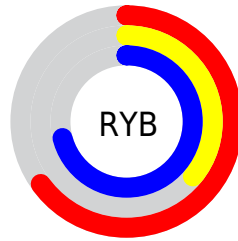
The Yxy color **19.1233, 0.3001, 0.2074** is a dark color, and the websafe version is hex **9966CC**. A complement of this color would be **36.6189, 0.3170, 0.4741**, and the grayscale version is **20.2160, 0.3127, 0.3290**.

A 20% lighter version of the original color is **42.1435, 0.3048, 0.2312**, and **6.5677, 0.2910, 0.1704** is the 20% darker color. If you saturate the color by 10%, you get **15.9991, 0.2962, 0.1849**, and if you desaturate by 10%, it is **23.0008, 0.3036, 0.2320**.

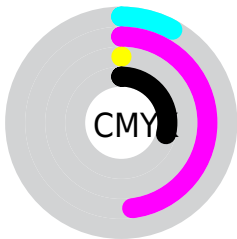
# Distribution



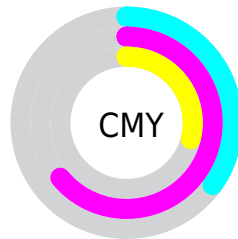
- Red (65%)
- Green (36%)
- Blue (71%)



- Red (65%)
- Yellow (36%)
- Blue (71%)



- Cyan (8%)
- Magenta (48%)
- Yellow (0%)
- Black (29%)




- Cyan (35%)
- Magenta (64%)
- Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 19.1233, 0.3001, 0.2074 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 19.1233, 0.3001, 0.2074 by changing the saturation by 10% instead.




 19.1233, 0.3001,  
0.2074


 19.1233, 0.3001,  
0.2074


247.1286, 0.3094,  
0.2702


 11.7594, 0.2966,  
0.1915


 41.9423, 0.3043,  
0.2305


 6.5801, 0.2914,  
0.1711


 58.1663, 0.3056,  
0.2391

 3.2009, 0.2830,  
0.1444


 78.1124, 0.3066,  
0.2463

 1.2375, 0.2684,  
0.1087

 102.1650, 0.3074,  
0.2525

 0.0920, 0.2509,  
0.0195

130.7085, 0.3080,  
0.2578

 0.0000, 0.0655,  
0.0000

164.1274, 0.3086,

 0.0000, 0.0000,

0.2625

0.0000

202.8059, 0.3090,  
0.2665

■ 19.1233, 0.3001,  
0.2074

■ 19.1233, 0.3001,  
0.2074

■ 15.9991, 0.2962,  
0.1849

■ 23.0008, 0.3036,  
0.2320

■ 13.5728, 0.2920,  
0.1654

■ 27.6770, 0.3066,  
0.2577

■ 11.7850, 0.2875,  
0.1498


■ 33.1966, 0.3092,  
0.2836


■ 10.5657, 0.2830,  
0.1386

■ 39.6003, 0.3113,  
0.3088


■ 9.7976, 0.2785,  
0.1315


■ 46.9262, 0.3130,  
0.3329

 9.6838, 0.2778,  
0.1304

 55.2099, 0.3143,  
0.3556

 64.4855, 0.3153,  
0.3765

 74.7850, 0.3160,  
0.3958

 86.1393, 0.3165,  
0.4133

# Harmonies

## Analogous

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



19.1233, 0.2141, 0.1834



19.1233, 0.3001, 0.2074



19.1233, 0.4071, 0.2544

# Triad

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



19.1233, 0.3001, 0.2074



19.1233, 0.4710, 0.4566



19.1233, 0.1598, 0.3027

# Complementary

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



19.1233, 0.3001, 0.2074



36.6189, 0.3170, 0.4741

# 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.



19.1233, 0.2122, 0.4194



19.1233, 0.3001, 0.2074



19.1233, 0.3913, 0.5132

# Square

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



19.1233, 0.3001, 0.2074



19.1233, 0.5127, 0.3853



19.1233, 0.2972, 0.5098



19.1233, 0.1450, 0.2229



# Rectangle

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



19.1233, 0.3001, 0.2074



19.1233, 0.4692, 0.2947



19.1233, 0.2972, 0.5098



19.1233, 0.1729, 0.3392

# Sweetspot

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



19.1241, 0.3001, 0.2074



64.7502, 0.3101, 0.2940



16.5486, 0.2272, 0.2064



13.4757, 0.3096, 0.2886



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



19.1241, 0.3001, 0.2074



28.6829, 0.2959, 0.1835



19.8132, 0.3534, 0.2462



8.5712, 0.3111, 0.3064



6.7846, 0.2783, 0.1307



0.2330, 0.2909, 0.1376



# Inverse Universe

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



18.6139, 0.4206, 0.3077



27.8339, 0.4599, 0.3044



36.3379, 0.2878, 0.4312



8.5284, 0.3261, 0.3251



6.8485, 0.6115, 0.3142



0.2227, 0.5426, 0.2763



# Previews

## White Background



This preview shows how the Yxy color 19.1233, 0.3001, 0.2074 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

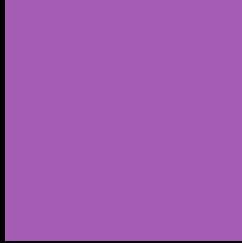
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 19.1233, 0.3001, 0.2074 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

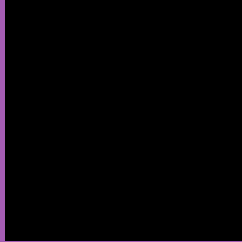
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 19.1233, 0.3001, 0.2074**

## **Background**



This preview shows how black text looks on a background with the Yxy color 19.1233, 0.3001, 0.2074.



This preview shows how white text looks on a background with the Yxy color 19.1233, 0.3001, 0.2074.

# 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

19.1233, 0.3001, 0.2074

### Protanopia

19.4842, 0.2136, 0.1964

### Deuteranopia

19.2374, 0.2398, 0.2341



## Tritanopia

19.0540, 0.3685, 0.3159

# Trichromacy



## Original Color

19.1233, 0.3001, 0.2074

## Protanomaly

18.6917, 0.2368, 0.1977

## Deuteranomaly

18.6113, 0.2584, 0.2203

## Tritanomaly

18.9355, 0.3422, 0.2722

# Monochromacy



## Original Color

19.1233, 0.3001, 0.2074

## Achromatopsia

20.1556, 0.3127, 0.3290

## Achromatomaly

19.3128, 0.3089, 0.2764

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 19.1233, 0.3001, 0.2074 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(165, 93, 180)` looks like.

```
.text, #text, p{  
    color:rgb(165, 93, 180)  
}
```

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(165, 93, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 93, 180) }
```

## Border

The CSS property to change the border of an element to Yxy 19.1233, 0.3001, 0.2074 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(165, 93, 180) }
```

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

```
.border{ border-color:rgb(165, 93, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 93, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 93, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 93, 180);  
box-shadow:4px 4px 4px 4px rgb(165, 93,  
180) }
```



# Background

The CSS property to change the background color of an element to Yxy 19.1233, 0.3001, 0.2074 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 93, 180) }
```

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

```
.background{ background-color: rgb(165, 93,  
180) }
```

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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