

# Converting Colors

$Y_{xy}(18.4831, 0.2437, 0.1219)$

Have a look what the booklet for  
Yxy(18.4831, 0.2437, 0.1219)  
contains.

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# Color

**Yxy(18.4831, 0.2437, 0.1219)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B02FFF
RGB	176, 47, 255
RGB Percent	69%, 18%, 100%
CMY	0.3101, 0.8151, 0.0002
CMYK	0.31, 0.82, 0.00, 0.00
HSL	277°, 100%, 59%
HSV	277°, 82%, 100%
XYZ	36.9510, 18.4831, 96.1910
YIQ	109.2830, 10.1160, 92.0360

# Conversions

## Conversions Part 2

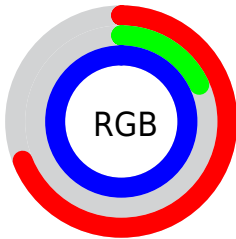
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	176, 47, 255
Decimal	11546623
CIE <sub>Lab</sub>	50.08, 80.11, -77.98
CIE <sub>LCh</sub>	50, 111.795, 315.771
Y <sub>xy</sub>	18.4831, 0.2437, 0.1219
Android (android.graphics.Color)	4289736703 (0xFFB02FFF)
YUV	109.2830, 71.8385, 58.5108
Hunter-Lab	42.9920, 78.1824, -102.5621

# Details

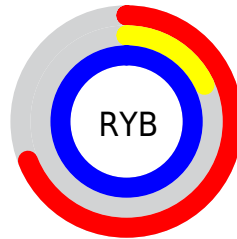
The Yxy color **18.4831, 0.2437, 0.1219** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **76.1498, 0.3299, 0.5596**, and the grayscale version is **15.1872, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.3764, 0.3026, 0.1880**, and **7.6761, 0.2192, 0.0981** is the 20% darker color. If you saturate the color by 10%, you get **15.9092, 0.2338, 0.1091**, and if you desaturate by 10%, it is **22.3284, 0.2541, 0.1399**.

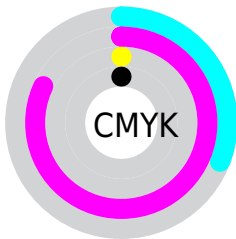
# Distribution



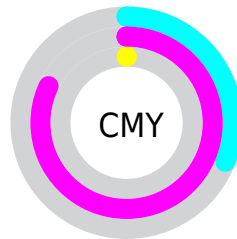
- Red (69%)
- Green (18%)
- Blue (100%)



- Red (69%)
- Yellow (18%)
- Blue (100%)



- Cyan (31%)
- Magenta (82%)
- Yellow (0%)
- Black (0%)




- Cyan (31%)
- Magenta (82%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.4831, 0.2437, 0.1219 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 18.4831, 0.2437, 0.1219 by changing the saturation by 10% instead.




 18.4831, 0.2437,  
0.1219


 18.4831, 0.2437,  
0.1219


243.5801, 0.2853,  
0.2142


 11.2974, 0.2322,  
0.1035


 40.8588, 0.2599,  
0.1521


 6.2672, 0.2171,  
0.0827


 56.8176, 0.2657,  
0.1645


 3.0082, 0.1971,  
0.0596


 76.4695, 0.2705,  
0.1754

 1.1360, 0.1703,  
0.0357

 100.1990, 0.2745,  
0.1850

 0.0085, 0.1362,  
0.0005

 128.3904, 0.2779,  
0.1935

 0.0000, 0.0884,  
0.0000

161.4281, 0.2807,

 0.0000, 0.0000,

0.2012

0.0000

199.6966, 0.2832,  
0.2080

■ 18.4831, 0.2437,  
0.1219

■ 18.4831, 0.2437,  
0.1219

■ 15.9092, 0.2338,  
0.1091

■ 22.3284, 0.2541,  
0.1399

■ 14.4842, 0.2259,  
0.1018

■ 27.6251, 0.2645,  
0.1623

■ 34.5253, 0.2746,  
0.1882

■ 43.1608, 0.2840,  
0.2160

■ 53.6494, 0.2925,  
0.2446

66.0986, 0.3000,  
0.2728

80.6072, 0.3065,  
0.2999

97.2674, 0.3120,  
0.3253

99.9972, 0.3127,  
0.3290

# Harmonies

## Analogous

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



18.4831, 0.1252, 0.0972



18.4831, 0.2437, 0.1219



18.4831, 0.4479, 0.1791

# Triad

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



18.4831, 0.2437, 0.1219



18.4831, 0.5561, 0.4439



18.4831, 0.0665, 0.2905

# Complementary

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



18.4831, 0.2437, 0.1219



76.1498, 0.3299, 0.5596

# 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.



18.4831, 0.1328, 0.5876



18.4831, 0.2437, 0.1219



18.4831, 0.4039, 0.5961

# Square

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



18.4831, 0.2437, 0.1219



18.4831, 0.6574, 0.3347



18.4831, 0.2549, 0.7223



18.4831, 0.0540, 0.1483



# Rectangle

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



18.4831, 0.2437, 0.1219



18.4831, 0.5871, 0.2297



18.4831, 0.2549, 0.7223



18.4831, 0.0809, 0.3761

# Sweetspot

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



18.4837, 0.2437, 0.1219



62.8238, 0.2983, 0.2658



22.9567, 0.1818, 0.1558



12.4863, 0.2956, 0.2558



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.



18.4837, 0.2437, 0.1219



14.7987, 0.2277, 0.1034



29.0511, 0.3460, 0.1775



17.9351, 0.3077, 0.3051



7.6596, 0.2273, 0.1026



0.8085, 0.2379, 0.1084



# Inverse Universe

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



24.8093, 0.4949, 0.2668



22.2938, 0.5451, 0.2787



72.5608, 0.2959, 0.5639



18.1014, 0.3234, 0.3200



11.5865, 0.5464, 0.2783

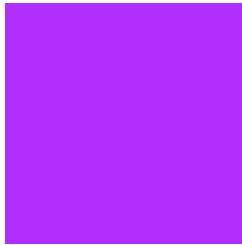


1.1486, 0.5156, 0.2614



# Previews

## White Background



This preview shows how the Yxy color 18.4831, 0.2437, 0.1219 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

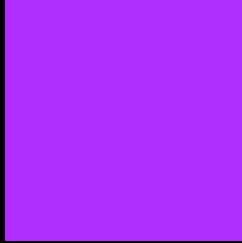
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 18.4831, 0.2437, 0.1219 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

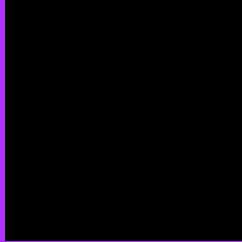
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 18.4831, 0.2437, 0.1219**

## **Background**



This preview shows how black text looks on a background with the Yxy color 18.4831, 0.2437, 0.1219.



This preview shows how white text looks on a background with the Yxy color 18.4831, 0.2437, 0.1219.

# 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

18.4831, 0.2437, 0.1219

### Protanopia

18.7325, 0.1739, 0.1460

### Deuteranopia

18.6222, 0.1843, 0.1833



## Tritanopia

18.3325, 0.3635, 0.3156

# Trichromacy



## Original Color

18.4831, 0.2437, 0.1219



## Protanomaly

15.1177, 0.1771, 0.1187



## Deuteranomaly

14.8205, 0.1835, 0.1355



## Tritanomaly

16.7238, 0.3103, 0.2107

# Monochromacy



## Original Color

18.4831, 0.2437, 0.1219



## Achromatopsia

15.2926, 0.3127, 0.3290



## Achromatomaly

14.4116, 0.2803, 0.2060

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.4831, 0.2437, 0.1219 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(176, 47, 255)` looks like.

```
.text, #text, p{  
    color:rgb(176, 47, 255)  
}
```

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(176, 47, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 47, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 18.4831, 0.2437, 0.1219 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(176, 47, 255) }
```

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

```
.border{ border-color:rgb(176, 47, 255) }
```

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

Here you see how a box with a 4 pixel rgb(176, 47, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 47, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 47, 255);  
box-shadow:4px 4px 4px 4px rgb(176, 47,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.4831, 0.2437, 0.1219 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 47, 255) }
```

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

```
.background{ background-color: rgb(176, 47,  
255) }
```

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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