

# Converting Colors

$Y_{xy}(32.3491, 0.2599, 0.1866)$

Have a look what the booklet for  
Yxy(32.3491, 0.2599, 0.1866)  
contains.

<b>Yxy(32.2643, 0.2600, 0.1862)</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(32.2643, 0.2600, 0.1862)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B97EFC
RGB	185, 126, 252
RGB Percent	73%, 49%, 99%
CMY	0.2743, 0.5060, 0.0117
CMYK	0.27, 0.50, 0.00, 0.01
HSL	268°, 95%, 74%
HSV	268°, 50%, 99%
XYZ	45.0522, 32.2643, 95.9612
YIQ	158.0050, -5.2820, 51.6940

# Conversions

## Conversions Part 2

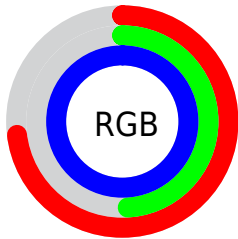
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	185, 126, 252
Decimal	12156668
CIE Lab	63.56, 46.91, -54.58
CIE LCh	64, 71.971, 310.681
Yxy	32.2643, 0.2600, 0.1862
Android (android.graphics.Color)	4290346748 (0xFFB97EFC)
YUV	158.0050, 46.3395, 23.6746
Hunter-Lab	56.8017, 42.1742, -60.4038

# Details

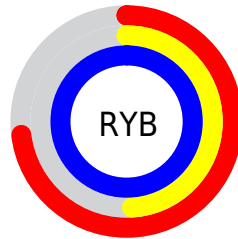
The Yxy color **32.2643, 0.2600, 0.1862** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **82.4632, 0.3451, 0.4700**, and the grayscale version is **33.9834, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.9172, 0.3068, 0.2534**, and **13.5615, 0.2418, 0.1542** is the 20% darker color. If you saturate the color by 10%, you get **25.0260, 0.2461, 0.1573**, and if you desaturate by 10%, it is **41.2847, 0.2731, 0.2165**.

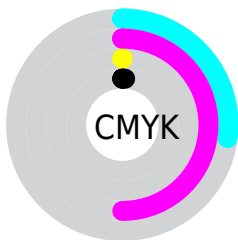
# Distribution



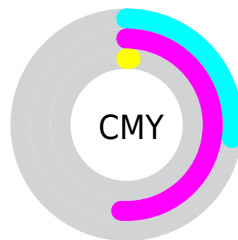
- Red (73%)
- Green (49%)
- Blue (99%)



- Red (73%)
- Yellow (49%)
- Blue (99%)



- Cyan (27%)
- Magenta (50%)
- Yellow (0%)
- Black (1%)




- Cyan (27%)
- Magenta (51%)
- Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.2643, 0.2600, 0.1862 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 32.2643, 0.2600, 0.1862 by changing the saturation by 10% instead.





 32.2643, 0.2600,  
0.1862


 32.2643, 0.2600,  
0.1862


312.3215, 0.2889,  
0.2522


 21.5635, 0.2524,  
0.1717


 63.2252, 0.2709,  
0.2088

 13.5365, 0.2425,  
0.1542


 84.2540, 0.2749,  
0.2177

 7.7990, 0.2294,  
0.1331


 109.4943, 0.2782,  
0.2254

 3.9666, 0.2114,  
0.1073

139.3305, 0.2810,  
0.2321

 1.6549, 0.1858,  
0.0763

174.1469, 0.2834,  
0.2380

 0.3942, 0.1496,  
0.0343

214.3279, 0.2855,

 0.0000, 0.0874,

0.2433

0.0000

260.2580, 0.2873,  
0.2480


 0.0000, 0.0000,  
0.0000


 32.2643, 0.2600,  
0.1862


 32.2643, 0.2600,  
0.1862


 25.0260, 0.2461,  
0.1573


 41.2847, 0.2731,  
0.2165


 19.4375, 0.2320,  
0.1315


 52.1991, 0.2850,  
0.2468


 15.3531, 0.2183,  
0.1103

 65.1142, 0.2956,  
0.2761

 12.5986, 0.2057,  
0.0947

 80.1276, 0.3048,  
0.3036

 10.8918, 0.1945,  
0.0845

 97.3303, 0.3127,  
0.3290

99.8093, 0.3144,  
0.3318

# Harmonies

## Analogous

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



32.2643, 0.1820, 0.1708



32.2643, 0.2600, 0.1862



32.2643, 0.3719, 0.2276

# Triad

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



32.2643, 0.2600, 0.1862



32.2643, 0.5049, 0.4343



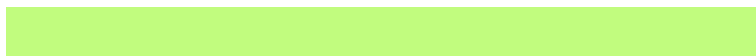
32.2643, 0.1631, 0.3432

# Complementary

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



32.2643, 0.2600, 0.1862



82.4632, 0.3451, 0.4700

# 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.



32.2643, 0.2329, 0.4751



32.2643, 0.2600, 0.1862



32.2643, 0.4289, 0.5082

# Square

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



32.2643, 0.2600, 0.1862



32.2643, 0.5305, 0.3584



32.2643, 0.3306, 0.5408



32.2643, 0.1346, 0.2383



# Rectangle

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



32.2643, 0.2600, 0.1862



32.2643, 0.4486, 0.2665



32.2643, 0.3306, 0.5408



32.2643, 0.1819, 0.3879

# Sweetspot

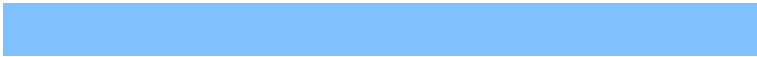
The Sweet Spot groups the original color and five complimentary colors.



32.2655, 0.2600, 0.1862



74.3252, 0.3004, 0.2901



49.6884, 0.2331, 0.2557



15.2230, 0.2984, 0.2843



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.



32.2655, 0.2600, 0.1862



25.6908, 0.2461, 0.1573



41.8657, 0.3146, 0.2069



17.0419, 0.3053, 0.3050



5.7589, 0.1963, 0.0855



0.5958, 0.2093, 0.0927



# Inverse Universe

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



39.4589, 0.3772, 0.2601



34.1928, 0.3971, 0.2488



75.8957, 0.3073, 0.4879



17.3793, 0.3210, 0.3165



11.7050, 0.4830, 0.2435

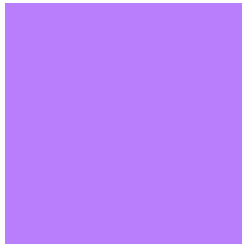


1.1055, 0.4583, 0.2298



# Previews

## White Background



This preview shows how the Yxy color 32.2643, 0.2600, 0.1862 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

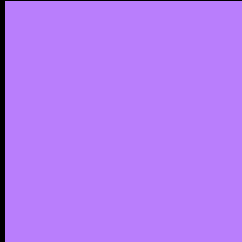
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.2643, 0.2600, 0.1862 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

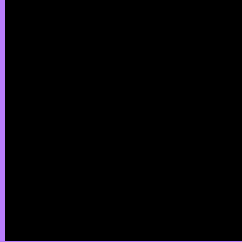
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.2643, 0.2600, 0.1862**

## Background



This preview shows how black text looks on a background with the Yxy color 32.2643, 0.2600, 0.1862.



This preview shows how white text looks on a background with the Yxy color 32.2643, 0.2600, 0.1862.

# 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

32.2643, 0.2600, 0.1862

### Protanopia

32.7327, 0.2130, 0.1955

### Deuteranopia

32.5317, 0.2127, 0.2062



## Tritanopia

32.0427, 0.3217, 0.3116

# Trichromacy



## Original Color

32.2643, 0.2600, 0.1862



## Protanomaly

31.9050, 0.2266, 0.1901



## Deuteranomaly

31.6294, 0.2262, 0.1964



## Tritanomaly

31.6051, 0.2972, 0.2576

# Monochromacy



## Original Color

32.2643, 0.2600, 0.1862



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

32.6884, 0.2924, 0.2659

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.2643, 0.2600, 0.1862 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(185, 126, 252)` looks like.

```
.text, #text, p{  
    color:rgb(185, 126, 252)  
}
```

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(185, 126, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 126, 252) }
```

## Border

The CSS property to change the border of an element to Yxy 32.2643, 0.2600, 0.1862 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(185, 126, 252) }
```

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

```
.border{ border-color:rgb(185, 126, 252) }
```

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

Here you see how a box with a 4 pixel `rgb(185, 126, 252)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 126, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 126, 252);  
box-shadow:4px 4px 4px 4px rgb(185, 126,  
252) }
```



# Background

The CSS property to change the background color of an element to Yxy 32.2643, 0.2600, 0.1862 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 126, 252) }
```

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

```
.background{ background-color: rgb(185,  
126, 252) }
```

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