

# Converting Colors

$Y_{xy}(45.1433, 0.3182, 0.2125)$

Have a look what the booklet for  
Yxy(45.1433, 0.3182, 0.2125)  
contains.

|  |    |
|--|----|
| <b>Yxy(45.2551, 0.3182, 0.2128)</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(45.2551, 0.3182, 0.2128)**

# Conversions

## Conversions Part 1

| Format      | Color                      |
|-------------|----------------------------|
| Hex         | FF85FF                     |
| RGB         | 255, 133, 255              |
| RGB Percent | 100%, 52%, 100%            |
| CMY         | 0.0000, 0.4783, 0.0002     |
| CMYK        | 0.00, 0.48, 0.00, 0.00     |
| HSL         | 300°, 100%, 76%            |
| HSV         | 300°, 48%, 100%            |
| XYZ         | 67.6700, 45.2551, 99.7399  |
| YIQ         | 183.3860, 33.5500, 63.8060 |

# Conversions

## Conversions Part 2

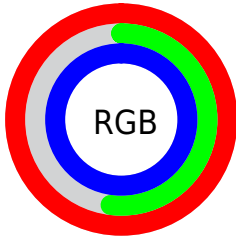
| <b>Format</b>                       | <b>Color</b>                  |
|-------------------------------------|-------------------------------|
| R <sub>Y</sub> B                    | 255, 133, 255                 |
| Decimal                             | 16745983                      |
| CIE Lab                             | 73.06, 62.59, -40.69          |
| CIE LCh                             | 73, 74.651, 326.974           |
| Yxy                                 | 45.2551, 0.3182,<br>0.2128    |
| Android<br>(android.graphics.Color) | 4294936063<br>(0xFFFF85FF)    |
| YUV                                 | 183.3860, 35.3057,<br>62.8055 |
| Hunter-Lab                          | 67.2719, 61.8304,<br>-40.8152 |

# Details

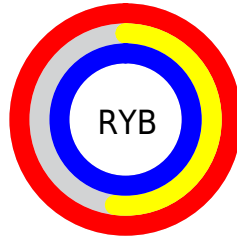
The Yxy color **45.2551, 0.3182, 0.2128** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **78.1997, 0.3056, 0.4811**, and the grayscale version is **47.3683, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.3069, 0.3157, 0.2653**, and **21.1207, 0.3169, 0.1880** is the 20% darker color. If you saturate the color by 10%, you get **39.1003, 0.3191, 0.1932**, and if you desaturate by 10%, it is **53.1085, 0.3171, 0.2352**.

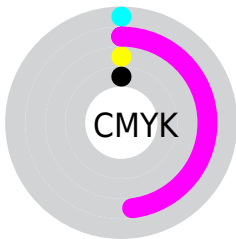
# Distribution



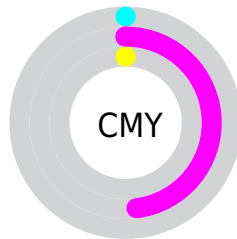
- Red (100%)
- Green (52%)
- Blue (100%)



- Red (100%)
- Yellow (52%)
- Blue (100%)



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




- Cyan (0%)
- Magenta (48%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.2551, 0.3182, 0.2128 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 45.2551, 0.3182, 0.2128 by changing the saturation by 10% instead.





 45.2551, 0.3182,  
0.2128

 45.2551, 0.3182,  
0.2128


367.8057, 0.3178,  
0.2646

 31.6584, 0.3178,  
0.2016


 83.1031, 0.3185,  
0.2303

 21.1007, 0.3170,  
0.1882


 108.1232, 0.3184,  
0.2372

 13.1976, 0.3157,  
0.1717


 137.7198, 0.3184,  
0.2433

 7.5648, 0.3132,  
0.1514

172.2775, 0.3183,  
0.2486

 3.8178, 0.3087,  
0.1258

212.1805, 0.3182,  
0.2533

 1.5721, 0.3000,  
0.0936

257.8133, 0.3180,

 0.3387, 0.2861,

0.2575

0.0420

309.5602, 0.3179,  
0.2612

0.0000, 0.2472,  
0.0000

0.0000, 0.0000,  
0.0000

45.2551, 0.3182,  
0.2128

45.2551, 0.3182,  
0.2128

39.1003, 0.3191,  
0.1932

53.1085, 0.3171,  
0.2352

34.5132, 0.3199,  
0.1772

62.7666, 0.3160,  
0.2595

31.3540, 0.3204,  
0.1655

74.3341, 0.3148,  
0.2846

29.4554, 0.3208,  
0.1581

87.9058, 0.3136,  
0.3098

■ 28.5936, 0.3210,  
0.1547

99.9987, 0.3127,  
0.3290

■ 28.4736, 0.3210,  
0.1542

99.9989, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.2551, 0.2255, 0.1841



45.2551, 0.3182, 0.2128



45.2551, 0.4267, 0.2636

# Triad

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



45.2551, 0.3182, 0.2128



45.2551, 0.4605, 0.4698



45.2551, 0.1527, 0.2844

# Complementary

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



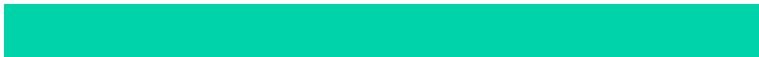
45.2551, 0.3182, 0.2128



78.1997, 0.3056, 0.4811

# 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.



45.2551, 0.1986, 0.3993



45.2551, 0.3182, 0.2128



45.2551, 0.3755, 0.5212

# Square

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



45.2551, 0.3182, 0.2128



45.2551, 0.5118, 0.3981



45.2551, 0.2801, 0.5026



45.2551, 0.1440, 0.2120



# Rectangle

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



45.2551, 0.3182, 0.2128



45.2551, 0.4844, 0.3055



45.2551, 0.2801, 0.5026



45.2551, 0.1636, 0.3191

# Sweetspot

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



45.2571, 0.3182, 0.2128



79.2990, 0.3144, 0.2943



28.9889, 0.2210, 0.1774



16.3678, 0.3146, 0.2889



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.



45.2571, 0.3182, 0.2128



39.5537, 0.3191, 0.1947



41.9352, 0.3774, 0.2666



18.3003, 0.3138, 0.3056



14.8789, 0.3210, 0.1542



1.4487, 0.3210, 0.1542



# Inverse Universe

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



45.2571, 0.3182, 0.2128



39.5537, 0.3191, 0.1947



80.4001, 0.2769, 0.4036



18.3003, 0.3138, 0.3056



14.8789, 0.3210, 0.1542



1.4487, 0.3210, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 45.2551, 0.3182, 0.2128 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

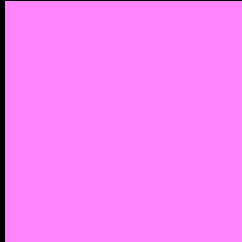
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.2551, 0.3182, 0.2128 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

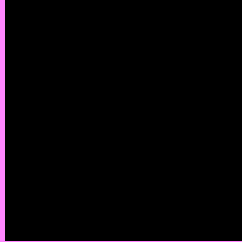
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.2551, 0.3182, 0.2128**

## Background



This preview shows how black text looks on a background with the Yxy color 45.2551, 0.3182, 0.2128.



This preview shows how white text looks on a background with the Yxy color 45.2551, 0.3182, 0.2128.

# 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

45.2551, 0.3182, 0.2128

### Protanopia

45.5343, 0.2433, 0.2353

### Deuteranopia

45.4288, 0.2501, 0.2438



## Tritanopia

45.0975, 0.3907, 0.3161

# Trichromacy



## Original Color

45.2551, 0.3182, 0.2128



## Protanomaly

43.7861, 0.2662, 0.2230



## Deuteranomaly

43.7293, 0.2710, 0.2279



## Tritanomaly

44.5914, 0.3638, 0.2741

# Monochromacy



## Original Color

45.2551, 0.3182, 0.2128



## Achromatopsia

47.3531, 0.3127, 0.3290



## Achromatomaly

45.0690, 0.3152, 0.2771

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.2551, 0.3182, 0.2128 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(255, 133, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 133, 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(255, 133, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 133, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 45.2551, 0.3182, 0.2128 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(255, 133, 255) }
```

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

```
.border{ border-color:rgb(255, 133, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 133, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 133, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 133, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 133,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.2551, 0.3182, 0.2128 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 133, 255) }
```

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

```
.background{ background-color: rgb(255,  
133, 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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