

# Converting Colors

$Y_{xy}(32.9416, 0.3472, 0.2016)$

Have a look what the booklet for  
Yxy(32.9416, 0.3472, 0.2016)  
contains.

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# Color

**Yxy(33.0358, 0.3469, 0.2017)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB59E0
RGB	251, 89, 224
RGB Percent	98%, 35%, 88%
CMY	0.0156, 0.6510, 0.1214
CMYK	0.00, 0.65, 0.11, 0.02
HSL	310°, 95%, 67%
HSV	310°, 65%, 98%
XYZ	56.8176, 33.0358, 73.9334
YIQ	152.8280, 53.2170, 76.3290

# Conversions

## Conversions Part 2

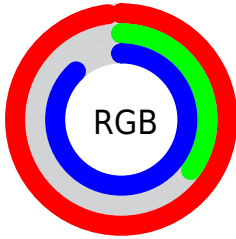
Format	Color
R <sub>Y</sub> B	251, 89, 224
Decimal	16472544
CIE Lab	64.19, 75.55, -37.53
CIE LCh	64, 84.359, 333.584
Yxy	33.0358, 0.3469, 0.2017
Android (android.graphics.Color)	4294662624 (0xFFFB59E0)
YUV	152.8280, 35.0878, 86.0968
Hunter-Lab	57.4768, 75.8686, -36.0320

# Details

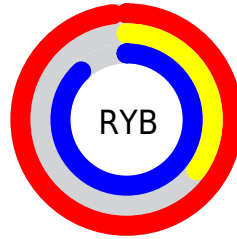
The Yxy color **33.0358, 0.3469, 0.2017** is a light color, and the websafe version is hex **FF33CC**. The color can be described as light muted magenta. A complement of this color would be **72.3835, 0.2933, 0.5082**, and the grayscale version is **31.6028, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.9749, 0.3175, 0.2266**, and **13.9904, 0.3538, 0.1731** is the 20% darker color. If you saturate the color by 10%, you get **29.3249, 0.3534, 0.1901**, and if you desaturate by 10%, it is **38.1787, 0.3404, 0.2172**.

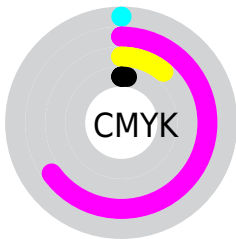
# Distribution



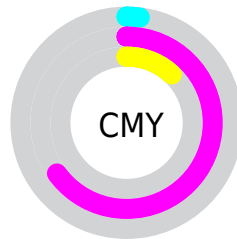
- Red (98%)
- Green (35%)
- Blue (88%)



- Red (98%)
- Yellow (35%)
- Blue (88%)



- Cyan (0%)
- Magenta (65%)
- Yellow (11%)
- Black (2%)




- Cyan (2%)
- Magenta (65%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.0358, 0.3469, 0.2017 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 33.0358, 0.3469, 0.2017 by changing the saturation by 10% instead.




 33.0358, 0.3469,  
0.2017


 33.0358, 0.3469,  
0.2017


315.8110, 0.3323,  
0.2606


 22.1539, 0.3498,  
0.1886


 64.4314, 0.3422,  
0.2219

 13.9700, 0.3531,  
0.1726


 85.7139, 0.3402,  
0.2299

 8.0998, 0.3568,  
0.1528


 111.2320, 0.3385,  
0.2367

 4.1589, 0.3607,  
0.1281

 141.3702, 0.3370,  
0.2427

 1.7628, 0.3643,  
0.0971

176.5128, 0.3356,  
0.2480

 0.4638, 0.3678,  
0.0522

217.0442, 0.3344,

 0.0000, 0.3629,

0.2527

0.0000

263.3488, 0.3333,  
0.2568

■ 0.0000, 0.2011,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 33.0358, 0.3469,  
0.2017

■ 33.0358, 0.3469,  
0.2017

■ 29.3249, 0.3534,  
0.1901

■ 38.1787, 0.3404,  
0.2172

■ 26.8896, 0.3598,  
0.1830


■ 44.8792, 0.3342,  
0.2356


■ 25.5455, 0.3659,  
0.1806


■ 53.2546, 0.3284,  
0.2559


■ 25.1261, 0.3691,  
0.1807

■ 63.4097, 0.3232,  
0.2773

 75.4406, 0.3185,  
0.2987

 89.4366, 0.3144,  
0.3197

 99.1413, 0.3112,  
0.3306

 99.2511, 0.3103,  
0.3290

# Harmonies

## Analogous

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



33.0358, 0.2269, 0.1632



33.0358, 0.3469, 0.2017



33.0358, 0.4814, 0.2634

# Triad

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



33.0358, 0.3469, 0.2017



33.0358, 0.4601, 0.5069



33.0358, 0.1176, 0.2447

# Complementary

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



33.0358, 0.3469, 0.2017



72.3835, 0.2933, 0.5082

# 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.



33.0358, 0.1564, 0.3803



33.0358, 0.3469, 0.2017



33.0358, 0.3526, 0.5732

# Square

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



33.0358, 0.3469, 0.2017



33.0358, 0.5403, 0.4173



33.0358, 0.2419, 0.5335



33.0358, 0.1181, 0.1754



# Rectangle

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



33.0358, 0.3469, 0.2017



33.0358, 0.5422, 0.3114



33.0358, 0.2419, 0.5335



33.0358, 0.1256, 0.2824

# Sweetspot

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



33.0374, 0.3469, 0.2017



72.3794, 0.3205, 0.2892



17.6376, 0.2007, 0.1272



14.7392, 0.3219, 0.2830



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.



33.0374, 0.3469, 0.2017



29.6432, 0.3551, 0.1879



29.7190, 0.4473, 0.2739



17.4720, 0.3164, 0.3095



13.2249, 0.3681, 0.1802



1.2376, 0.3615, 0.1765



# Inverse Universe

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



33.0374, 0.3469, 0.2017



29.6432, 0.3551, 0.1879



75.0323, 0.2594, 0.4022



17.4720, 0.3164, 0.3095



13.2249, 0.3681, 0.1802



1.2376, 0.3615, 0.1765



# Previews

## White Background



This preview shows how the Yxy color 33.0358, 0.3469, 0.2017 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

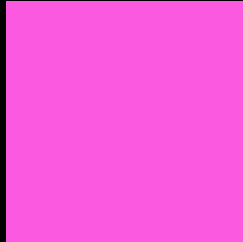
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.0358, 0.3469, 0.2017 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

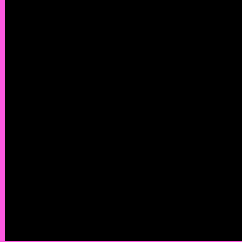
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.0358, 0.3469, 0.2017**

## Background



This preview shows how black text looks on a background with the Yxy color 33.0358, 0.3469, 0.2017.



This preview shows how white text looks on a background with the Yxy color 33.0358, 0.3469, 0.2017.

# 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

33.0358, 0.3469, 0.2017

### Protanopia

33.5799, 0.2151, 0.1985

### Deuteranopia

33.3695, 0.2516, 0.2457



## Tritanopia

32.9040, 0.4518, 0.3208

# Trichromacy



## Original Color

33.0358, 0.3469, 0.2017



## Protanomaly

30.3894, 0.2486, 0.1907



## Deuteranomaly

30.6109, 0.2802, 0.2186



## Tritanomaly

32.5011, 0.4138, 0.2726

# Monochromacy



## Original Color

33.0358, 0.3469, 0.2017



## Achromatopsia

31.8547, 0.3127, 0.3290



## Achromatomaly

30.0388, 0.3265, 0.2643

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.0358, 0.3469, 0.2017 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(251, 89, 224)` looks like.

```
.text, #text, p{  
    color:rgb(251, 89, 224)  
}
```

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(251, 89, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 89, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 33.0358, 0.3469, 0.2017 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(251, 89, 224) }
```

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

```
.border{ border-color:rgb(251, 89, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 89, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 89, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 89, 224);  
box-shadow:4px 4px 4px 4px rgb(251, 89,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.0358, 0.3469, 0.2017 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 89, 224) }
```

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

```
.background{ background-color: rgb(251, 89,  
224) }
```

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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