

# Converting Colors

$Y_{xy}(33.5029, 0.33390, 0.1911)$

Have a look what the booklet for  
Yxy(33.5029, 0.3390, 0.1911)  
contains.

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**Color**

**Yxy(33.5026, 0.3386, 0.1907)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF53EC
RGB	255, 83, 236
RGB Percent	100%, 33%, 93%
CMY	0.0000, 0.6747, 0.0745
CMYK	0.00, 0.67, 0.07, 0.00
HSL	307°, 100%, 66%
HSV	307°, 67%, 100%
XYZ	59.4860, 33.5026, 82.6936
YIQ	151.8700, 53.3990, 84.0470

# Conversions

## Conversions Part 2

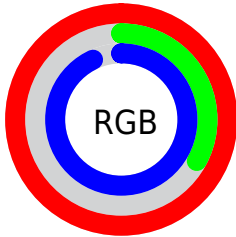
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 83, 236
Decimal	16733164
CIE Lab	64.57, 80.42, -43.57
CIE LCh	65, 91.466, 331.554
Yxy	33.5026, 0.3386, 0.1907
Android (android.graphics.Color)	4294923244 (0xFFFF53EC)
YUV	151.8700, 41.4761, 90.4450
Hunter-Lab	57.8814, 82.1558, -44.1890

# Details

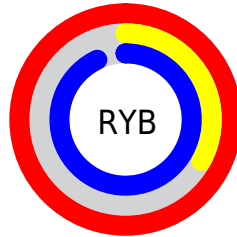
The Yxy color **33.5026, 0.3386, 0.1907** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **74.3151, 0.2964, 0.5280**, and the grayscale version is **31.1286, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.4265, 0.3177, 0.2221**, and **14.7646, 0.3400, 0.1646** is the 20% darker color. If you saturate the color by 10%, you get **30.1254, 0.3428, 0.1797**, and if you desaturate by 10%, it is **38.3024, 0.3342, 0.2058**.

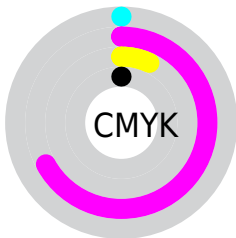
# Distribution



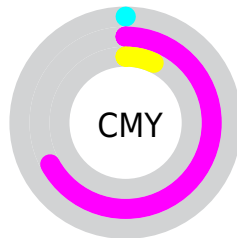
- Red (100%)
- Green (33%)
- Blue (93%)



- Red (100%)
- Yellow (33%)
- Blue (93%)



- Cyan (0%)
- Magenta (67%)
- Yellow (7%)
- Black (0%)




- Cyan (0%)
- Magenta (67%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.5026, 0.3386, 0.1907 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 33.5026, 0.3386, 0.1907 by changing the saturation by 10% instead.





 33.5026, 0.3386,  
0.1907


 33.5026, 0.3386,  
0.1907


317.9084, 0.3289,  
0.2534


 22.5117, 0.3401,  
0.1770


 65.1594, 0.3358,  
0.2120

 14.2334, 0.3416,  
0.1606


 86.5942, 0.3345,  
0.2204

 8.2832, 0.3429,  
0.1406


 112.2790, 0.3333,  
0.2278

 4.2767, 0.3434,  
0.1161

 142.5984, 0.3323,  
0.2342

 1.8295, 0.3420,  
0.0862

177.9366, 0.3313,  
0.2398

 0.5055, 0.3372,  
0.0464

218.6781, 0.3304,

 0.0000, 0.3213,

0.2449

0.0000

265.2072, 0.3296,  
0.2494

■ 0.0000, 0.2200,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 33.5026, 0.3386,  
0.1907

■ 33.5026, 0.3386,  
0.1907

■ 30.1254, 0.3428,  
0.1797

■ 38.3024, 0.3342,  
0.2058

■ 28.0249, 0.3469,  
0.1733

■ 44.6862, 0.3298,  
0.2242

■ 26.9773, 0.3506,  
0.1712

■ 52.7715, 0.3256,  
0.2451

■ 26.7978, 0.3515,  
0.1710

■ 62.6702, 0.3217,  
0.2673

 74.4845, 0.3181,  
0.2901

 88.3091, 0.3149,  
0.3127

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



33.5026, 0.2140, 0.1528



33.5026, 0.3386, 0.1907



33.5026, 0.4854, 0.2533

# Triad

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



33.5026, 0.3386, 0.1907



33.5026, 0.4713, 0.5067



33.5026, 0.1084, 0.2445

# Complementary

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



33.5026, 0.3386, 0.1907



74.3151, 0.2964, 0.5280

# 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.



33.5026, 0.1503, 0.3955



33.5026, 0.3386, 0.1907



33.5026, 0.3581, 0.5878

# Square

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



33.5026, 0.3386, 0.1907



33.5026, 0.5562, 0.4105



33.5026, 0.2418, 0.5608



33.5026, 0.1074, 0.1689



# Rectangle

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



33.5026, 0.3386, 0.1907



33.5026, 0.5544, 0.3023



33.5026, 0.2418, 0.5608



33.5026, 0.1171, 0.2861

# Sweetspot

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



33.4959, 0.3386, 0.1907



71.3084, 0.3190, 0.2844



16.1176, 0.1902, 0.1161



14.5398, 0.3200, 0.2779



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.



33.4959, 0.3386, 0.1907



29.2484, 0.3443, 0.1769



29.6988, 0.4447, 0.2643



18.2638, 0.3155, 0.3081



14.0163, 0.3509, 0.1707



1.3742, 0.3470, 0.1685



# Inverse Universe

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



33.4959, 0.3386, 0.1907



29.2484, 0.3443, 0.1769



76.9097, 0.2620, 0.4180



18.2638, 0.3155, 0.3081



14.0163, 0.3509, 0.1707



1.3742, 0.3470, 0.1685



# Previews

## White Background



This preview shows how the Yxy color 33.5026, 0.3386, 0.1907 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

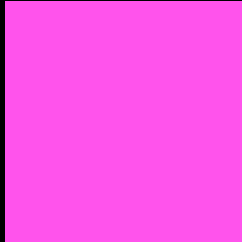
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.5026, 0.3386, 0.1907 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

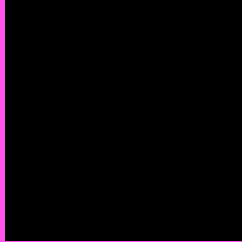
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.5026, 0.3386, 0.1907**

## Background



This preview shows how black text looks on a background with the Yxy color 33.5026, 0.3386, 0.1907.



This preview shows how white text looks on a background with the Yxy color 33.5026, 0.3386, 0.1907.

# 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

33.5026, 0.3386, 0.1907

### Protanopia

33.9760, 0.2159, 0.2000

### Deuteranopia

33.6248, 0.2396, 0.2334



## Tritanopia

33.2579, 0.4538, 0.3209

# Trichromacy



## Original Color

33.5026, 0.3386, 0.1907



## Protanomaly

30.3226, 0.2474, 0.1858



## Deuteranomaly

30.4716, 0.2679, 0.2058



## Tritanomaly

32.5939, 0.4114, 0.2671

# Monochromacy



## Original Color

33.5026, 0.3386, 0.1907



## Achromatopsia

31.3989, 0.3127, 0.3290



## Achromatomaly

29.4165, 0.3226, 0.2557

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.5026, 0.3386, 0.1907 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, 83, 236)` looks like.

```
.text, #text, p{  
    color:rgb(255, 83, 236)  
}
```

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, 83, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 83, 236) }
```

## Border

The CSS property to change the border of an element to Yxy 33.5026, 0.3386, 0.1907 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, 83, 236) }
```

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

```
.border{ border-color:rgb(255, 83, 236) }
```

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

Here you see how a box with a 4 pixel rgb(255, 83, 236) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 83, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 83, 236);  
box-shadow:4px 4px 4px 4px rgb(255, 83,  
236) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.5026, 0.3386, 0.1907 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 83, 236) }
```

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

```
.background{ background-color: rgb(255, 83,  
236) }
```

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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