

# Converting Colors

$Y_{xy}(38.3798, 0.3326, 0.2340)$

Have a look what the booklet for  
Yxy(38.3798, 0.3326, 0.2340)  
contains.

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# Color

**Yxy(38.2549, 0.3329, 0.2339)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EA81DA
RGB	234, 129, 218
RGB Percent	92%, 51%, 85%
CMY	0.0822, 0.4942, 0.1451
CMYK	0.00, 0.45, 0.07, 0.08
HSL	309°, 71%, 71%
HSV	309°, 45%, 92%
XYZ	54.4466, 38.2549, 70.8509
YIQ	170.5410, 34.0110, 49.9390

# Conversions

## Conversions Part 2

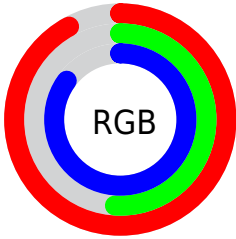
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	234, 129, 218
Decimal	15368666
CIE <sub>Lab</sub>	68.21, 52.29, -28.12
CIE <sub>LCh</sub>	68, 59.372, 331.726
Yxy	38.2549, 0.3329, 0.2339
Android (android.graphics.Color)	4293558746 (0xFFEA81DA)
YUV	170.5410, 23.3973, 55.6535
Hunter-Lab	61.8505, 48.8938, -24.6224

# Details

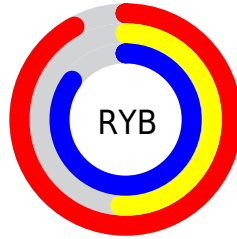
The Yxy color **38.2549, 0.3329, 0.2339** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **65.5768, 0.2979, 0.4482**, and the grayscale version is **40.3505, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.7610, 0.3160, 0.2595**, and **16.9066, 0.3361, 0.2102** is the 20% darker color. If you saturate the color by 10%, you get **32.5974, 0.3386, 0.2154**, and if you desaturate by 10%, it is **45.3316, 0.3275, 0.2544**.

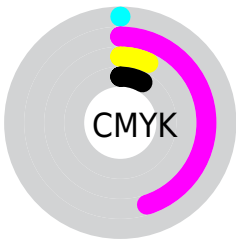
# Distribution



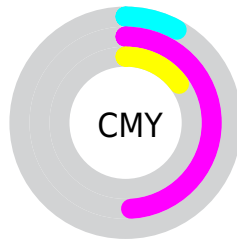
- Red (92%)
- Green (51%)
- Blue (85%)



- Red (92%)
- Yellow (51%)
- Blue (85%)



- Cyan (0%)
- Magenta (45%)
- Yellow (7%)
- Black (8%)




- Cyan (8%)
- Magenta (49%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.2549, 0.3329, 0.2339 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 38.2549, 0.3329, 0.2339 by changing the saturation by 10% instead.




 38.2549, 0.3329,  
0.2339


 38.2549, 0.3329,  
0.2339


338.7122, 0.3242,  
0.2788


 26.1806, 0.3346,  
0.2236

 72.4987, 0.3301,  
0.2496

 16.9588, 0.3367,  
0.2108


 95.4369, 0.3289,  
0.2556

 10.2051, 0.3390,  
0.1946


 122.7652, 0.3279,  
0.2608

 5.5352, 0.3415,  
0.1736

154.8681, 0.3270,  
0.2654

 2.5646, 0.3439,  
0.1456

192.1298, 0.3262,  
0.2693

 0.9089, 0.3449,  
0.1073

234.9348, 0.3255,

 0.0000, 0.3594,

0.2728

0.0000

283.6674, 0.3248,  
0.2760

■ 0.0000, 0.0614,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.2549, 0.3329,  
0.2339

■ 38.2549, 0.3329,  
0.2339

■ 32.5974, 0.3386,  
0.2154

■ 45.3316, 0.3275,  
0.2544

■ 28.2561, 0.3445,  
0.1998


■ 53.9108, 0.3227,  
0.2759

■ 25.1227, 0.3505,  
0.1881


■ 64.0755, 0.3183,  
0.2976

■ 23.0691, 0.3562,  
0.1809


■ 75.9009, 0.3144,  
0.3189

 21.9383, 0.3617,  
0.1782

 89.4578, 0.3111,  
0.3393

 21.5914, 0.3644,  
0.1781

 95.2762, 0.3087,  
0.3446

 95.4898, 0.3066,  
0.3409

 95.7077, 0.3046,  
0.3374

 95.9297, 0.3026,  
0.3338

# Harmonies

## Analogous

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



38.2549, 0.2493, 0.2048



38.2549, 0.3329, 0.2339



38.2549, 0.4222, 0.2820

# Triad

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



38.2549, 0.3329, 0.2339



38.2549, 0.4333, 0.4626



38.2549, 0.1704, 0.2809

# Complementary

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



38.2549, 0.3329, 0.2339



65.5768, 0.2979, 0.4482

# 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.



38.2549, 0.2071, 0.3723



38.2549, 0.3329, 0.2339



38.2549, 0.3579, 0.4932

# Square

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



38.2549, 0.3329, 0.2339



38.2549, 0.4805, 0.4042



38.2549, 0.2751, 0.4615



38.2549, 0.1663, 0.2229



# Rectangle

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



38.2549, 0.3329, 0.2339



38.2549, 0.4659, 0.3207



38.2549, 0.2751, 0.4615



38.2549, 0.1788, 0.3085

# Sweetspot

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



38.2567, 0.3329, 0.2339



80.3215, 0.3175, 0.3016



27.6342, 0.2395, 0.1928



16.5518, 0.3184, 0.2968



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.



38.2567, 0.3329, 0.2339



39.9928, 0.3382, 0.2165



35.9381, 0.3895, 0.2877



15.2720, 0.3161, 0.3093



12.1440, 0.3636, 0.1777



0.9643, 0.3567, 0.1739



# Inverse Universe

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



38.2567, 0.3329, 0.2339



39.9928, 0.3382, 0.2165



67.5757, 0.2705, 0.3762



15.2720, 0.3161, 0.3093



12.1440, 0.3636, 0.1777

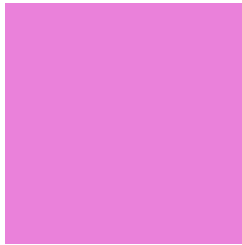


0.9643, 0.3567, 0.1739



# Previews

## White Background



This preview shows how the Yxy color 38.2549, 0.3329, 0.2339 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

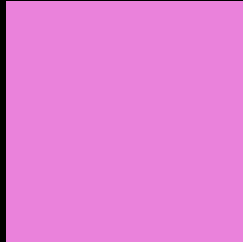
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.2549, 0.3329, 0.2339 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

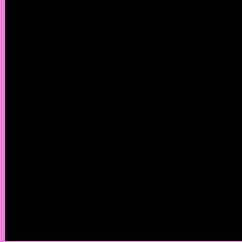
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.2549, 0.3329, 0.2339**

## Background



This preview shows how black text looks on a background with the Yxy color 38.2549, 0.3329, 0.2339.



This preview shows how white text looks on a background with the Yxy color 38.2549, 0.3329, 0.2339.

# 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

38.2549, 0.3329, 0.2339

### Protanopia

38.7189, 0.2372, 0.2264

### Deuteranopia

38.6753, 0.2706, 0.2653



## Tritanopia

38.1468, 0.3898, 0.3162

# Trichromacy



## Original Color

38.2549, 0.3329, 0.2339



## Protanomaly

37.1300, 0.2652, 0.2262



## Deuteranomaly

37.4274, 0.2908, 0.2505



## Tritanomaly

38.0093, 0.3691, 0.2843

# Monochromacy



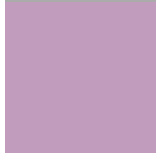
## Original Color

38.2549, 0.3329, 0.2339



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

38.8771, 0.3204, 0.2882

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.2549, 0.3329, 0.2339 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(234, 129, 218)` looks like.

```
.text, #text, p{  
    color:rgb(234, 129, 218)  
}
```

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(234, 129, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 129, 218) }
```

## Border

The CSS property to change the border of an element to Yxy 38.2549, 0.3329, 0.2339 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(234, 129, 218) }
```

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

```
.border{ border-color:rgb(234, 129, 218) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 129, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 129, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 129, 218);  
box-shadow:4px 4px 4px 4px rgb(234, 129,  
218) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.2549, 0.3329, 0.2339 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 129, 218) }
```

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

```
.background{ background-color: rgb(234,  
129, 218) }
```

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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