

# Converting Colors

$Y_{xy}(28.1026, 0.3346, 0.1789)$

Have a look what the booklet for  
Yxy(28.1026, 0.3346, 0.1789)  
contains.

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# Color

**Yxy(28.0894, 0.3338, 0.1784)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F23FE5
RGB	242, 63, 229
RGB Percent	95%, 25%, 90%
CMY	0.0507, 0.7533, 0.1018
CMYK	0.00, 0.74, 0.05, 0.05
HSL	304°, 87%, 60%
HSV	304°, 74%, 95%
XYZ	52.5574, 28.0894, 76.8050
YIQ	135.4450, 53.3980, 89.5740

# Conversions

## Conversions Part 2

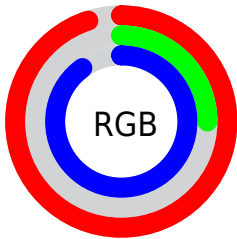
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	242, 63, 229
Decimal	15876069
CIE Lab	59.97, 82.94, -47.05
CIE LCh	60, 95.358, 330.433
Yxy	28.0894, 0.3338, 0.1784
Android (android.graphics.Color)	4294066149 (0xFFFF23FE5)
YUV	135.4450, 46.1226, 93.4487
Hunter-Lab	52.9994, 84.2623, -48.8215

# Details

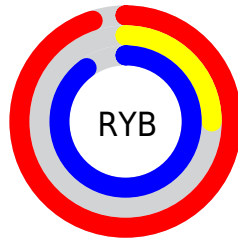
The Yxy color **28.0894, 0.3338, 0.1784** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light washed magenta. A complement of this color would be **65.1150, 0.2982, 0.5529**, and the grayscale version is **24.1973, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.9183, 0.3184, 0.2087**, and **12.9622, 0.3337, 0.1612** is the 20% darker color. If you saturate the color by 10%, you get **25.8801, 0.3365, 0.1699**, and if you desaturate by 10%, it is **31.4790, 0.3308, 0.1913**.

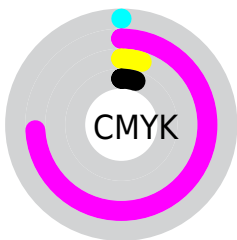
# Distribution



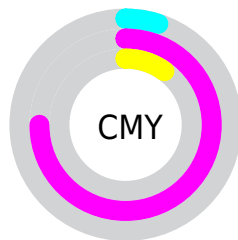
- Red (95%)
- Green (25%)
- Blue (90%)



- Red (95%)
- Yellow (25%)
- Blue (90%)



- Cyan (0%)
- Magenta (74%)
- Yellow (5%)
- Black (5%)




- Cyan (5%)
- Magenta (75%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.0894, 0.3338, 0.1784 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 28.0894, 0.3338, 0.1784 by changing the saturation by 10% instead.





 28.0894, 0.3338,  
0.1784


 28.0894, 0.3338,  
0.1784


292.8939, 0.3269,  
0.2475


 18.3931, 0.3344,  
0.1633


 56.6271, 0.3321,  
0.2020

 11.2326, 0.3347,  
0.1451


 76.2373, 0.3313,  
0.2113


 6.2235, 0.3341,  
0.1231


 99.9209, 0.3304,  
0.2193

 2.9814, 0.3318,  
0.0965

 128.0623, 0.3296,  
0.2264

 1.1221, 0.3255,  
0.0649

 161.0459, 0.3289,  
0.2326

 0.0000, 0.3201,  
0.0000

199.2561, 0.3282,


 0.0000, 0.2755,


0.2382


0.0000


243.0773, 0.3276,  
0.2431


 0.0000, 0.0000,  
0.0000


 28.0894, 0.3338,  
0.1784


 28.0894, 0.3338,  
0.1784


 25.8801, 0.3365,  
0.1699


 31.4790, 0.3308,  
0.1913

 24.6797, 0.3390,  
0.1658


 36.1823, 0.3277,  
0.2080

 24.2950, 0.3404,  
0.1649


 42.3187, 0.3246,  
0.2279


 49.9936, 0.3216,  
0.2500

 59.3022, 0.3187,  
0.2732

 70.3321, 0.3160,  
0.2968

 83.1648, 0.3136,  
0.3199

 96.8861, 0.3115,  
0.3407

 96.9931, 0.3105,  
0.3389

# Harmonies

## Analogous

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



28.0894, 0.2014, 0.1402



28.0894, 0.3338, 0.1784



28.0894, 0.4970, 0.2429

# Triad

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



28.0894, 0.3338, 0.1784



28.0894, 0.4807, 0.5091



28.0894, 0.0953, 0.2386

# Complementary

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



28.0894, 0.3338, 0.1784



65.1150, 0.2982, 0.5529

# 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.



28.0894, 0.1384, 0.4089



28.0894, 0.3338, 0.1784



28.0894, 0.3580, 0.6079

# Square

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



28.0894, 0.3338, 0.1784



28.0894, 0.5744, 0.4039



28.0894, 0.2352, 0.5945



28.0894, 0.0941, 0.1577



# Rectangle

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



28.0894, 0.3338, 0.1784



28.0894, 0.5745, 0.2931



28.0894, 0.2352, 0.5945



28.0894, 0.1040, 0.2846

# Sweetspot

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



28.0907, 0.3338, 0.1784



69.0209, 0.3182, 0.2778



11.4475, 0.1764, 0.0976



14.1013, 0.3189, 0.2714



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.



28.0907, 0.3338, 0.1784



28.2952, 0.3379, 0.1673



24.3410, 0.4547, 0.2563



16.0104, 0.3149, 0.3074



13.0528, 0.3400, 0.1647



1.0918, 0.3373, 0.1632



# Inverse Universe

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



28.0907, 0.3338, 0.1784



28.2952, 0.3379, 0.1673



67.2899, 0.2633, 0.4369



16.0104, 0.3149, 0.3074



13.0528, 0.3400, 0.1647

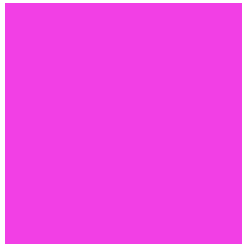


1.0918, 0.3373, 0.1632



# Previews

## White Background



This preview shows how the Yxy color 28.0894, 0.3338, 0.1784 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

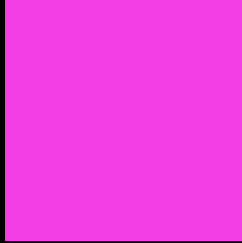
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.0894, 0.3338, 0.1784 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

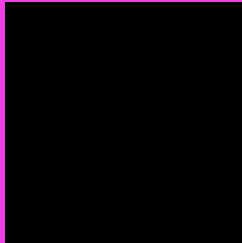
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 28.0894, 0.3338, 0.1784**

## Background



This preview shows how black text looks on a background with the Yxy color 28.0894, 0.3338, 0.1784.



This preview shows how white text looks on a background with the Yxy color 28.0894, 0.3338, 0.1784.

# 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

28.0894, 0.3338, 0.1784

### Protanopia

28.4939, 0.2008, 0.1794

### Deuteranopia

28.3358, 0.2288, 0.2232



## Tritanopia

27.8713, 0.4671, 0.3218

# Trichromacy



## Original Color

28.0894, 0.3338, 0.1784



## Protanomaly

24.5751, 0.2307, 0.1648



## Deuteranomaly

24.8529, 0.2580, 0.1915



## Tritanomaly

26.9703, 0.4175, 0.2598

# Monochromacy



## Original Color

28.0894, 0.3338, 0.1784



## Achromatopsia

24.2281, 0.3127, 0.3290



## Achromatomaly

22.8005, 0.3227, 0.2445

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.0894, 0.3338, 0.1784 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(242, 63, 229)` looks like.

```
.text, #text, p{  
    color:rgb(242, 63, 229)  
}
```

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(242, 63, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 63, 229) }
```

## Border

The CSS property to change the border of an element to Yxy 28.0894, 0.3338, 0.1784 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(242, 63, 229) }
```

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

```
.border{ border-color:rgb(242, 63, 229) }
```

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

Here you see how a box with a 4 pixel rgb(242, 63, 229) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 63, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 63, 229);  
box-shadow:4px 4px 4px 4px rgb(242, 63,  
229) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.0894, 0.3338, 0.1784 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 63, 229) }
```

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

```
.background{ background-color: rgb(242, 63,  
229) }
```

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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