

# Converting Colors

$Y_{xy}(34.0472, 0.2982, 0.1937)$

Have a look what the booklet for  
Yxy(34.0472, 0.2982, 0.1937)  
contains.

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# Color

**Yxy(34.0959, 0.2982, 0.1938)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE72F4
RGB	222, 114, 244
RGB Percent	87%, 45%, 96%
CMY	0.1295, 0.5528, 0.0433
CMYK	0.09, 0.53, 0.00, 0.04
HSL	290°, 85%, 70%
HSV	290°, 53%, 96%
XYZ	52.4634, 34.0959, 89.3742
YIQ	161.1120, 22.6380, 63.3260

# Conversions

## Conversions Part 2

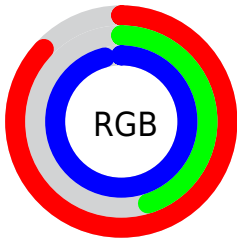
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">222, 114, 244</a>
Decimal	<a href="#">14578420</a>
CIELab	<a href="#">65.04, 60.85, -47.54</a>
CIELCh	<a href="#">65, 77.215, 321.999</a>
Yxy	<a href="#">34.0959, 0.2982, 0.1938</a>
Android (android.graphics.Color)	<a href="#">4292768500</a> ( <a href="#">0xFFDE72F4</a> )
YUV	<a href="#">161.1120, 40.8638, 53.3988</a>
Hunter-Lab	<a href="#">58.3917, 58.1919, -49.8749</a>

# Details

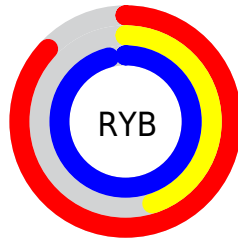
The Yxy color **34.0959, 0.2982, 0.1938** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **71.1286, 0.3164, 0.4942**, and the grayscale version is **35.4969, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.2295, 0.3166, 0.2460**, and **14.5065, 0.2906, 0.1634** is the 20% darker color. If you saturate the color by 10%, you get **28.6635, 0.2941, 0.1727**, and if you desaturate by 10%, it is **41.0145, 0.3019, 0.2177**.

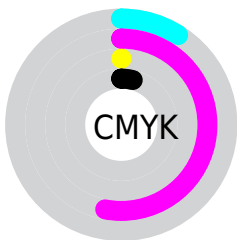
# Distribution



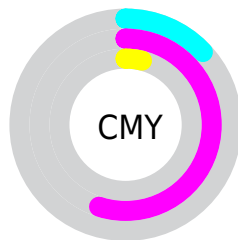
- Red (87%)
- Green (45%)
- Blue (96%)



- Red (87%)
- Yellow (45%)
- Blue (96%)



- Cyan (9%)
- Magenta (53%)
- Yellow (0%)
- Black (4%)




- Cyan (13%)
- Magenta (55%)
- Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.0959, 0.2982, 0.1938 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 34.0959, 0.2982, 0.1938 by changing the saturation by 10% instead.





 34.0959, 0.2982,  
0.1938


 34.0959, 0.2982,  
0.1938


320.5595, 0.3083,  
0.2557

 22.9673, 0.2950,  
0.1802


 66.0828, 0.3024,  
0.2149

 14.5693, 0.2906,  
0.1638


 87.7098, 0.3039,  
0.2233

 8.5177, 0.2843,  
0.1438


 113.6051, 0.3050,  
0.2305

 4.4280, 0.2748,  
0.1191

144.1531, 0.3059,  
0.2368

 1.9157, 0.2599,  
0.0888

179.7381, 0.3067,  
0.2424

 0.5578, 0.2359,  
0.0497

220.7446, 0.3073,


 0.0000, 0.1944,


0.2473


0.0000


267.5569, 0.3079,  
0.2517


 0.0000, 0.0000,  
0.0000


 34.0959, 0.2982,  
0.1938


 34.0959, 0.2982,  
0.1938


 28.6635, 0.2941,  
0.1727


 41.0145, 0.3019,  
0.2177


 24.5935, 0.2897,  
0.1553


 49.5215, 0.3052,  
0.2434


 21.7488, 0.2852,  
0.1423

 59.7148, 0.3080,  
0.2697

 19.9617, 0.2807,  
0.1340

 71.6835, 0.3103,  
0.2958

 19.1850, 0.2777,  
0.1304

 85.5100, 0.3122,  
0.3211

97.7769, 0.3139,  
0.3397

98.5342, 0.3165,  
0.3397

99.3083, 0.3191,  
0.3396

99.3094, 0.3191,  
0.3396

# Harmonies

## Analogous

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



34.0959, 0.2020, 0.1674



34.0959, 0.2982, 0.1938



34.0959, 0.4218, 0.2450

# Triad

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



34.0959, 0.2982, 0.1938



34.0959, 0.4860, 0.4669



34.0959, 0.1408, 0.2948

# Complementary

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



34.0959, 0.2982, 0.1938



71.1286, 0.3164, 0.4942

# 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.



34.0959, 0.1961, 0.4330



34.0959, 0.2982, 0.1938



34.0959, 0.3944, 0.5377

# Square

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



34.0959, 0.2982, 0.1938



34.0959, 0.5382, 0.3862



34.0959, 0.2897, 0.5411



34.0959, 0.1268, 0.2069



# Rectangle

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



34.0959, 0.2982, 0.1938



34.0959, 0.4935, 0.2886



34.0959, 0.2897, 0.5411



34.0959, 0.1543, 0.3371

# Sweetspot

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



34.0974, 0.2982, 0.1938



75.3893, 0.3097, 0.2886



28.2412, 0.2157, 0.1884



15.5414, 0.3093, 0.2833



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.



34.0974, 0.2982, 0.1938



31.2361, 0.2937, 0.1710



35.5695, 0.3604, 0.2371



16.6182, 0.3111, 0.3055



10.4876, 0.2784, 0.1308



0.9585, 0.2841, 0.1339



# Inverse Universe

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



33.0439, 0.4424, 0.3061



30.2212, 0.4865, 0.3038



70.6305, 0.2858, 0.4465



16.5282, 0.3267, 0.3250



10.5594, 0.6153, 0.3163



0.9409, 0.5837, 0.2989



# Previews

## White Background



This preview shows how the Yxy color 34.0959, 0.2982, 0.1938 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

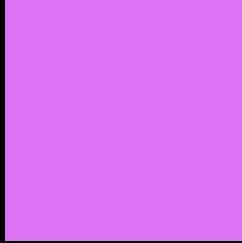
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 34.0959, 0.2982, 0.1938 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

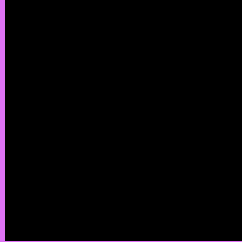
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 34.0959, 0.2982, 0.1938**

## Background



This preview shows how black text looks on a background with the Yxy color 34.0959, 0.2982, 0.1938.



This preview shows how white text looks on a background with the Yxy color 34.0959, 0.2982, 0.1938.

# 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

34.0959, 0.2982, 0.1938

### Protanopia

34.5142, 0.2177, 0.2018

### Deuteranopia

34.3810, 0.2298, 0.2234



## Tritanopia

33.9022, 0.3795, 0.3153

# Trichromacy



## Original Color

34.0959, 0.2982, 0.1938



## Protanomaly

32.7891, 0.2400, 0.1943



## Deuteranomaly

32.6527, 0.2495, 0.2067



## Tritanomaly

33.4573, 0.3478, 0.2631

# Monochromacy



## Original Color

34.0959, 0.2982, 0.1938



## Achromatopsia

35.6400, 0.3127, 0.3290



## Achromatomaly

33.7754, 0.3077, 0.2671

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.0959, 0.2982, 0.1938 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(222, 114, 244)` looks like.

```
.text, #text, p{  
    color:rgb(222, 114, 244)  
}
```

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(222, 114, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 114, 244) }
```

## Border

The CSS property to change the border of an element to Yxy 34.0959, 0.2982, 0.1938 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(222, 114, 244) }
```

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

```
.border{ border-color:rgb(222, 114, 244) }
```

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

Here you see how a box with a 4 pixel rgb(222, 114, 244) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 114, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 114, 244);  
box-shadow:4px 4px 4px 4px rgb(222, 114,  
244) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.0959, 0.2982, 0.1938 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 114, 244) }
```

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

```
.background{ background-color: rgb(222,  
114, 244) }
```

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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