

# Converting Colors

$Y_{xy}(34.2717, 0.3002, 0.1810)$

Have a look what the booklet for  
Yxy(34.2717, 0.3002, 0.1810)  
contains.

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**Color**

**Yxy(34.2152, 0.2999, 0.1809)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EA66FF
RGB	234, 102, 255
RGB Percent	92%, 40%, 100%
CMY	0.0825, 0.5998, 0.0001
CMYK	0.08, 0.60, 0.00, 0.00
HSL	292°, 100%, 70%
HSV	292°, 60%, 100%
XYZ	56.7227, 34.2152, 98.2008
YIQ	158.9100, 29.5590, 75.5670

# Conversions

## Conversions Part 2

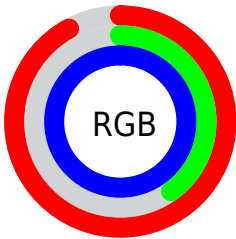
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	234, 102, 255
Decimal	15361791
CIE <sub>Lab</sub>	65.13, 71.25, -53.35
CIE <sub>LCh</sub>	65, 89.010, 323.176
Yxy	34.2152, 0.2999, 0.1809
Android (android.graphics.Color)	4293551871 (0xFFEA66FF)
YUV	158.9100, 47.3724, 65.8539
Hunter-Lab	58.4938, 70.7314, -58.5920

# Details

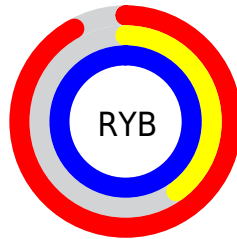
The Yxy color **34.2152, 0.2999, 0.1809** is a light color, and the websafe version is hex **FF66FF**. A complement of this color would be **76.6782, 0.3131, 0.5183**, and the grayscale version is **34.4028, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.2763, 0.3171, 0.2357**, and **14.6422, 0.2919, 0.1494** is the 20% darker color. If you saturate the color by 10%, you get **29.3633, 0.2965, 0.1629**, and if you desaturate by 10%, it is **40.6224, 0.3030, 0.2025**.

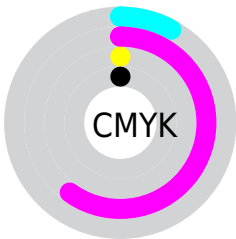
# Distribution



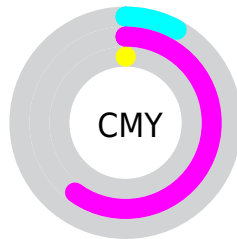
- Red (92%)
- Green (40%)
- Blue (100%)



- Red (92%)
- Yellow (40%)
- Blue (100%)



- Cyan (8%)
- Magenta (60%)
- Yellow (0%)
- Black (0%)




- Cyan (8%)
- Magenta (60%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.2152, 0.2999, 0.1809 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 34.2152, 0.2999, 0.1809 by changing the saturation by 10% instead.





 34.2152, 0.2999,  
0.1809


 34.2152, 0.2999,  
0.1809


321.0906, 0.3098,  
0.2472

 23.0590, 0.2967,  
0.1668


 66.2682, 0.3041,  
0.2032


 14.6371, 0.2922,  
0.1499


 87.9337, 0.3055,  
0.2121

 8.5651, 0.2858,  
0.1298


 113.8712, 0.3066,  
0.2198

 4.4586, 0.2763,  
0.1055

 144.4649, 0.3075,  
0.2266

 1.9333, 0.2615,  
0.0767

180.0993, 0.3083,  
0.2326

 0.5683, 0.2379,  
0.0416

221.1588, 0.3089,

 0.0000, 0.1988,

0.2380

0.0000

268.0277, 0.3094,  
0.2428

0.0000, 0.0707,  
0.0000

0.0000, 0.0000,  
0.0000

34.2152, 0.2999,  
0.1809

34.2152, 0.2999,  
0.1809

29.3633, 0.2965,  
0.1629

40.6224, 0.3030,  
0.2025

25.9159, 0.2930,  
0.1492

48.7086, 0.3057,  
0.2266

23.6998, 0.2894,  
0.1400

58.5898, 0.3080,  
0.2523

22.4300, 0.2858,  
0.1348

70.3706, 0.3100,  
0.2784

■ 22.4279, 0.2858,  
0.1348

■ 84.1475, 0.3115,  
0.3042

99.9950, 0.3127,  
0.3290

99.9984, 0.3127,  
0.3290

# Harmonies

## Analogous

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



34.2152, 0.1917, 0.1515



34.2152, 0.2999, 0.1809



34.2152, 0.4424, 0.2368

# Triad

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



34.2152, 0.2999, 0.1809



34.2152, 0.4964, 0.4776



34.2152, 0.1201, 0.2812

# Complementary

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



34.2152, 0.2999, 0.1809



76.6782, 0.3131, 0.5183

# 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.



34.2152, 0.1758, 0.4431



34.2152, 0.2999, 0.1809



34.2152, 0.3912, 0.5649

# Square

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



34.2152, 0.2999, 0.1809



34.2152, 0.5632, 0.3870



34.2152, 0.2762, 0.5755



34.2152, 0.1087, 0.1879



# Rectangle

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



34.2152, 0.2999, 0.1809



34.2152, 0.5236, 0.2835



34.2152, 0.2762, 0.5755



34.2152, 0.1331, 0.3290

# Sweetspot

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



34.2167, 0.2999, 0.1809



72.9541, 0.3103, 0.2836



24.7075, 0.2013, 0.1612



14.8135, 0.3098, 0.2760



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.



34.2167, 0.2999, 0.1809



28.5653, 0.2958, 0.1598



35.0039, 0.3750, 0.2320



18.1665, 0.3116, 0.3054



11.7705, 0.2864, 0.1351



1.1794, 0.2905, 0.1374



# Inverse Universe

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



32.1968, 0.4760, 0.3092



26.6734, 0.5291, 0.3091



76.7169, 0.2818, 0.4580



18.0277, 0.3273, 0.3258



11.1846, 0.6224, 0.3202

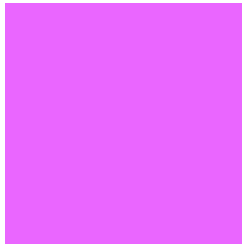


1.1008, 0.5965, 0.3060



# Previews

## White Background



This preview shows how the Yxy color 34.2152, 0.2999, 0.1809 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

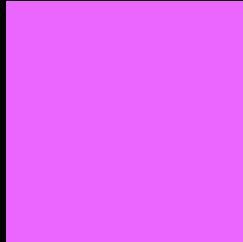
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 34.2152, 0.2999, 0.1809 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

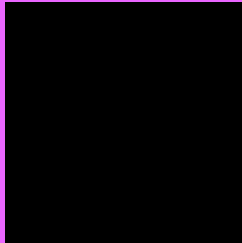
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 34.2152, 0.2999, 0.1809**

## Background



This preview shows how black text looks on a background with the Yxy color 34.2152, 0.2999, 0.1809.



This preview shows how white text looks on a background with the Yxy color 34.2152, 0.2999, 0.1809.

# 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

34.2152, 0.2999, 0.1809

### Protanopia

34.5142, 0.2177, 0.2018

### Deuteranopia

34.6237, 0.2208, 0.2144



## Tritanopia

33.8183, 0.3991, 0.3171

# Trichromacy



## Original Color

34.2152, 0.2999, 0.1809



## Protanomaly

32.3019, 0.2400, 0.1875



## Deuteranomaly

32.2856, 0.2423, 0.1941



## Tritanomaly

33.2271, 0.3596, 0.2578

# Monochromacy



## Original Color

34.2152, 0.2999, 0.1809



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

32.5111, 0.3081, 0.2563

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.2152, 0.2999, 0.1809 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, 102, 255)` looks like.

```
.text, #text, p{  
    color:rgb(234, 102, 255)  
}
```

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, 102, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 102, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 34.2152, 0.2999, 0.1809 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, 102, 255) }
```

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

```
.border{ border-color:rgb(234, 102, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 102, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 102, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 102, 255);  
box-shadow:4px 4px 4px 4px rgb(234, 102,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.2152, 0.2999, 0.1809 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 102, 255) }
```

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

```
.background{ background-color: rgb(234,  
102, 255) }
```

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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