

# Converting Colors

$Y_{xy}(33.3717, 0.2952, 0.1788)$

Have a look what the booklet for  
Yxy(33.3717, 0.2952, 0.1788)  
contains.

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**Color**

**Yxy(33.3808, 0.2953, 0.1788)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E566FF
RGB	229, 102, 255
RGB Percent	90%, 40%, 100%
CMY	0.1018, 0.6002, 0.0000
CMYK	0.10, 0.60, 0.00, 0.00
HSL	290°, 100%, 70%
HSV	290°, 60%, 100%
XYZ	55.1306, 33.3808, 98.1821
YIQ	157.4150, 26.5790, 74.5070

# Conversions

## Conversions Part 2

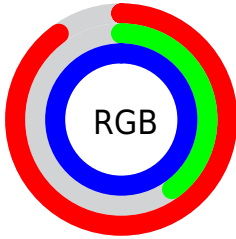
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	229, 102, 255
Decimal	15034111
CIE Lab	64.47, 70.14, -54.48
CIE LCh	64, 88.815, 322.161
Yxy	33.3808, 0.2953, 0.1788
Android (android.graphics.Color)	4293224191 (0xFFE566FF)
YUV	157.4150, 48.1094, 62.7800
Hunter-Lab	57.7761, 69.2184, -60.3115

# Details

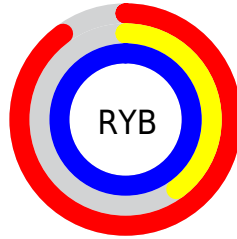
The Yxy color **33.3808, 0.2953, 0.1788** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **77.0604, 0.3156, 0.5170**, and the grayscale version is **33.6770, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.2763, 0.3171, 0.2357**, and **14.2091, 0.2857, 0.1473** is the 20% darker color. If you saturate the color by 10%, you get **28.4146, 0.2910, 0.1602**, and if you desaturate by 10%, it is **39.9024, 0.2994, 0.2010**.

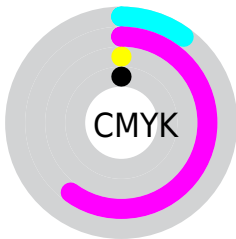
# Distribution



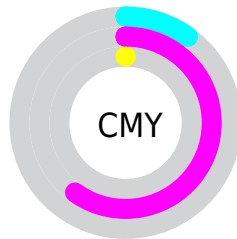
- Red (90%)
- Green (40%)
- Blue (100%)



- Red (90%)
- Yellow (40%)
- Blue (100%)



- Cyan (10%)
- Magenta (60%)
- Yellow (0%)
- Black (0%)




- Cyan (10%)
- Magenta (60%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.3808, 0.2953, 0.1788 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 33.3808, 0.2953, 0.1788 by changing the saturation by 10% instead.





 33.3808, 0.2953,  
0.1788


 33.3808, 0.2953,  
0.1788


317.3622, 0.3075,  
0.2461


 22.4183, 0.2915,  
0.1644


 64.9696, 0.3004,  
0.2014

 14.1646, 0.2863,  
0.1474


 86.3647, 0.3021,  
0.2105

 8.2352, 0.2789,  
0.1269


 112.0061, 0.3035,  
0.2183

 4.2458, 0.2682,  
0.1024

 142.2783, 0.3046,  
0.2253

 1.8120, 0.2516,  
0.0733

177.5656, 0.3055,  
0.2314

 0.4946, 0.2260,  
0.0370

218.2524, 0.3063,

 0.0000, 0.1831,

0.2368

0.0000

264.7231, 0.3070,  
0.2417

■ 0.0000, 0.0328,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 33.3808, 0.2953,  
0.1788

■ 33.3808, 0.2953,  
0.1788

■ 28.4146, 0.2910,  
0.1602

■ 39.9024, 0.2994,  
0.2010

■ 24.8614, 0.2865,  
0.1458


■ 48.1118, 0.3030,  
0.2257

■ 22.5449, 0.2820,  
0.1360

■ 58.1225, 0.3061,  
0.2517

■ 21.1809, 0.2775,  
0.1302

■ 70.0390, 0.3088,  
0.2781

 83.9579, 0.3110,  
0.3041

99.9693, 0.3127,  
0.3290

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.



33.3808, 0.1884, 0.1503



33.3808, 0.2953, 0.1788



33.3808, 0.4383, 0.2341

# Triad

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



33.3808, 0.2953, 0.1788



33.3808, 0.5001, 0.4746



33.3808, 0.1204, 0.2853

# Complementary

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



33.3808, 0.2953, 0.1788



77.0604, 0.3156, 0.5170

# 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.



33.3808, 0.1777, 0.4499



33.3808, 0.2953, 0.1788



33.3808, 0.3950, 0.5636

# Square

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



33.3808, 0.2953, 0.1788



33.3808, 0.5654, 0.3840



33.3808, 0.2795, 0.5792



33.3808, 0.1077, 0.1892



# Rectangle

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



33.3808, 0.2953, 0.1788



33.3808, 0.5214, 0.2807



33.3808, 0.2795, 0.5792



33.3808, 0.1339, 0.3342

# Sweetspot

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



33.3794, 0.2953, 0.1788



72.6835, 0.3093, 0.2834



26.0107, 0.2026, 0.1673



14.7466, 0.3086, 0.2758



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.



33.3794, 0.2953, 0.1788



27.6032, 0.2901, 0.1569



35.2360, 0.3691, 0.2274



18.1353, 0.3111, 0.3054



11.1249, 0.2783, 0.1306



1.1226, 0.2834, 0.1335



# Inverse Universe

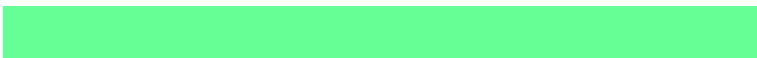
The Inverse Universe completely reimagines the original color for something new.



32.3098, 0.4697, 0.3043



26.7875, 0.5210, 0.3037



76.5576, 0.2840, 0.4649



18.0373, 0.3268, 0.3250



11.2155, 0.6155, 0.3164

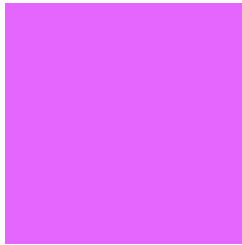


1.1054, 0.5873, 0.3009



# Previews

## White Background



This preview shows how the Yxy color 33.3808, 0.2953, 0.1788 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

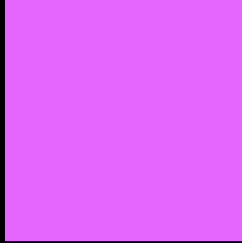
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 33.3808, 0.2953, 0.1788 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

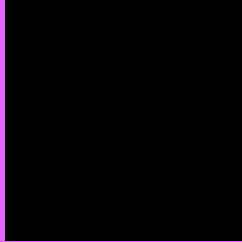
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.3808, 0.2953, 0.1788**

## Background



This preview shows how black text looks on a background with the Yxy color 33.3808, 0.2953, 0.1788.



This preview shows how white text looks on a background with the Yxy color 33.3808, 0.2953, 0.1788.

# 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

33.3808, 0.2953, 0.1788

### Protanopia

33.5799, 0.2151, 0.1985

### Deuteranopia

33.6207, 0.2176, 0.2110



## Tritanopia

33.0544, 0.3937, 0.3168

# Trichromacy



## Original Color

33.3808, 0.2953, 0.1788



## Protanomaly

31.3381, 0.2368, 0.1842



## Deuteranomaly

31.2202, 0.2383, 0.1905



## Tritanomaly

32.4398, 0.3543, 0.2564

# Monochromacy



## Original Color

33.3808, 0.2953, 0.1788



## Achromatopsia

33.7164, 0.3127, 0.3290



## Achromatomaly

31.8089, 0.3060, 0.2555

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.3808, 0.2953, 0.1788 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(229, 102, 255)` looks like.

```
.text, #text, p{  
    color:rgb(229, 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(229, 102, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 102, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 33.3808, 0.2953, 0.1788 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(229, 102, 255) }
```

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

```
.border{ border-color:rgb(229, 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(229, 102, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 102, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 102, 255);  
box-shadow:4px 4px 4px 4px rgb(229, 102,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.3808, 0.2953, 0.1788 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 102, 255) }
```

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

```
.background{ background-color: rgb(229,  
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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