

# Converting Colors

$Y_{xy}(53.6113, 0.2730, 0.2101)$

Have a look what the booklet for  
Yxy(53.6113, 0.2730, 0.2101)  
contains.

<b>Yxy(51.3514, 0.2952, 0.2373)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(51.3514, 0.2952, 0.2373)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4A7FF
RGB	228, 167, 255
RGB Percent	89%, 65%, 100%
CMY	0.1056, 0.3452, 0.0000
CMYK	0.11, 0.35, 0.00, 0.00
HSL	282°, 100%, 83%
HSV	282°, 35%, 100%
XYZ	63.8809, 51.3514, 101.1664
YIQ	195.2710, 8.1080, 40.3000

# Conversions

## Conversions Part 2

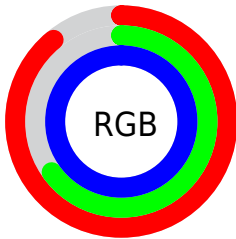
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	228, 167, 255
Decimal	14985215
CIE Lab	76.89, 37.58, -35.00
CIE LCh	77, 51.355, 317.034
Yxy	51.3514, 0.2952, 0.2373
Android (android.graphics.Color)	4293175295 (0xFFE4A7FF)
YUV	195.2710, 29.4464, 28.7033
Hunter-Lab	71.6599, 33.7182, -33.5412

# Details

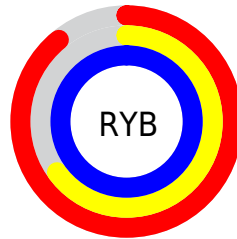
The Yxy color **51.3514, 0.2952, 0.2373** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **85.7660, 0.3241, 0.4280**, and the grayscale version is **54.5625, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.2554, 0.3142, 0.2980**, and **24.7698, 0.2889, 0.2168** is the 20% darker color. If you saturate the color by 10%, you get **41.6665, 0.2883, 0.2099**, and if you desaturate by 10%, it is **62.9378, 0.3013, 0.2650**.

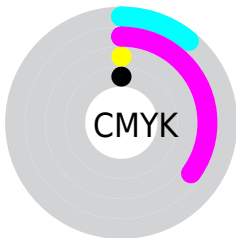
# Distribution



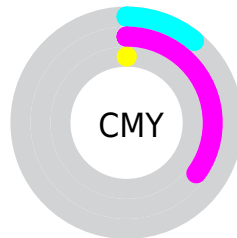
- Red (89%)
- Green (65%)
- Blue (100%)



- Red (89%)
- Yellow (65%)
- Blue (100%)



- Cyan (11%)
- Magenta (35%)
- Yellow (0%)
- Black (0%)




- Cyan (11%)
- Magenta (35%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.3514, 0.2952, 0.2373 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 51.3514, 0.2952, 0.2373 by changing the saturation by 10% instead.





 51.3514, 0.2952,  
0.2373

 51.3514, 0.2952,  
0.2373

391.9275, 0.3048,  
0.2789

 36.4883, 0.2927,  
0.2281


 92.1740, 0.2988,  
0.2515

 24.8116, 0.2894,  
0.2169


 118.9023, 0.3001,  
0.2571

 15.9367, 0.2850,  
0.2031

150.3545, 0.3012,  
0.2619

 9.4794, 0.2788,  
0.1856

186.9150, 0.3022,  
0.2662

 5.0552, 0.2698,  
0.1629

228.9681, 0.3030,  
0.2699

 2.2797, 0.2556,  
0.1328

276.8983, 0.3036,

 0.7629, 0.2315,

0.2732

0.0918

331.0900, 0.3042,  
0.2762

0.0000, 0.1879,  
0.0000

0.0000, 0.0000,  
0.0000

51.3514, 0.2952,  
0.2373

51.3514, 0.2952,  
0.2373

41.6665, 0.2883,  
0.2099

62.9378, 0.3013,  
0.2650

33.7704, 0.2807,  
0.1838

76.5232, 0.3065,  
0.2921

27.5432, 0.2725,  
0.1603

92.2020, 0.3110,  
0.3179

22.8486, 0.2641,  
0.1406

100.0000, 0.3127,  
0.3290

■ 19.5282, 0.2557,  
0.1255

■ 17.3878, 0.2476,  
0.1154

■ 16.5645, 0.2434,  
0.1114

# Harmonies

## Analogous

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



51.3514, 0.2364, 0.2227



51.3514, 0.2952, 0.2373



51.3514, 0.3663, 0.2707

# Triad

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



51.3514, 0.2952, 0.2373



51.3514, 0.4332, 0.4186



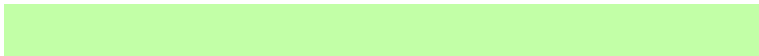
51.3514, 0.2093, 0.3260

# Complementary

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



51.3514, 0.2952, 0.2373



85.7660, 0.3241, 0.4280

# 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.



51.3514, 0.2540, 0.3989



51.3514, 0.2952, 0.2373



51.3514, 0.3833, 0.4524

# Square

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



51.3514, 0.2952, 0.2373



51.3514, 0.4509, 0.3690



51.3514, 0.3176, 0.4491



51.3514, 0.1915, 0.2651



# Rectangle

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



51.3514, 0.2952, 0.2373



51.3514, 0.4092, 0.3006



51.3514, 0.3176, 0.4491



51.3514, 0.2214, 0.3504

# Sweetspot

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



51.3525, 0.2952, 0.2373



83.3459, 0.3086, 0.3039



54.3948, 0.2544, 0.2588



17.3755, 0.3080, 0.3003



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.



51.3525, 0.2952, 0.2373



44.8663, 0.2908, 0.2194



55.1114, 0.3297, 0.2573



18.0052, 0.3089, 0.3052



8.7375, 0.2447, 0.1121



0.9082, 0.2535, 0.1170



# Inverse Universe

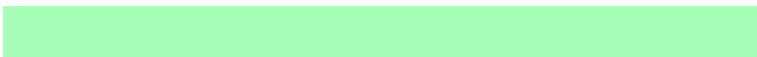
The Inverse Universe completely reimagines the original color for something new.



52.7784, 0.3695, 0.3010



46.6122, 0.3852, 0.2957



83.1561, 0.2995, 0.4134



18.0786, 0.3246, 0.3218



11.4196, 0.5747, 0.2940

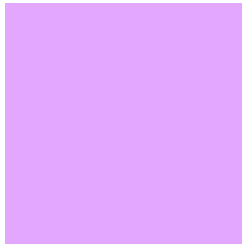


1.1304, 0.5427, 0.2763



# Previews

## White Background



This preview shows how the Yxy color 51.3514, 0.2952, 0.2373 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

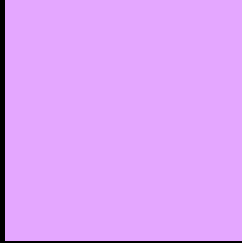
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.3514, 0.2952, 0.2373 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

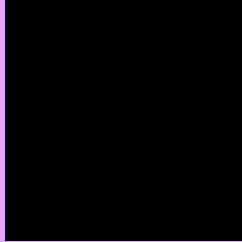
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.3514, 0.2952, 0.2373**

## Background



This preview shows how black text looks on a background with the Yxy color 51.3514, 0.2952, 0.2373.



This preview shows how white text looks on a background with the Yxy color 51.3514, 0.2952, 0.2373.

# 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

51.3514, 0.2952, 0.2373

### Protanopia

51.7325, 0.2552, 0.2509

### Deuteranopia

51.6196, 0.2605, 0.2544



## Tritanopia

51.1505, 0.3361, 0.3128

# Trichromacy



## Original Color

51.3514, 0.2952, 0.2373



## Protanomaly

50.9389, 0.2682, 0.2446



## Deuteranomaly

51.1401, 0.2721, 0.2479



## Tritanomaly

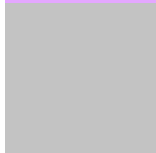
51.1474, 0.3200, 0.2829

# Monochromacy



## Original Color

51.3514, 0.2952, 0.2373



## Achromatopsia

54.5724, 0.3127, 0.3290



## Achromatomaly

52.9731, 0.3063, 0.2918

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.3514, 0.2952, 0.2373 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(228, 167, 255)` looks like.

```
.text, #text, p{  
    color:rgb(228, 167, 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(228, 167, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 167, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 51.3514, 0.2952, 0.2373 is called "border". The border property can be set on classes, ids or directly on the HTML element.

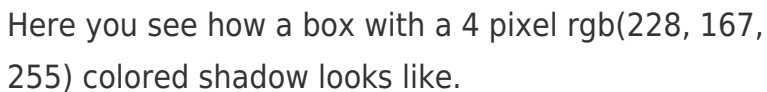
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(228, 167, 255) }
```

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

```
.border{ border-color:rgb(228, 167, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(228, 167, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(228, 167, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(228, 167, 255); box-shadow:4px 4px 4px 4px rgb(228, 167, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.3514, 0.2952, 0.2373 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 167, 255) }
```

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

```
.background{ background-color: rgb(228,  
167, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor