

# Converting Colors

$Y_{xy}(79.6260, 0.3479, 0.2170)$

Have a look what the booklet for  
Yxy(79.6260, 0.3479, 0.2170)  
contains.

<b>Yxy(51.5912, 0.3173, 0.2311)</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(51.5912, 0.3173, 0.2311)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9AFF
RGB	255, 154, 255
RGB Percent	100%, 60%, 100%
CMY	0.0001, 0.3960, 0.0001
CMYK	0.00, 0.40, 0.00, 0.00
HSL	300°, 100%, 80%
HSV	300°, 40%, 100%
XYZ	70.8347, 51.5912, 100.8160
YIQ	195.7130, 27.7750, 52.8230

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 154, 255
Decimal	16751359
CIE Lab	77.04, 52.30, -34.53
CIE LCh	77, 62.673, 326.571
Yxy	51.5912, 0.3173, 0.2311
Android (android.graphics.Color)	4294941439 (0xFFFF9AFF)
YUV	195.7130, 29.2285, 51.9947
Hunter-Lab	71.8270, 50.3366, -32.9402

# Details

The Yxy color **51.5912, 0.3173, 0.2311** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **80.7159, 0.3070, 0.4512**, and the grayscale version is **54.8330, 0.3127, 0.3290**.

A 20% lighter version of the original color is **74.5732, 0.3148, 0.2851**, and **25.0619, 0.3172, 0.2104** is the 20% darker color. If you saturate the color by 10%, you get **44.0495, 0.3183, 0.2091**, and if you desaturate by 10%, it is **60.9250, 0.3162, 0.2551**.

# Distribution



- Red (100%)
- Green (60%)
- Blue (100%)



- Red (100%)
- Yellow (60%)
- Blue (100%)



- Cyan (0%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (40%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.5912, 0.3173, 0.2311 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 51.5912, 0.3173, 0.2311 by changing the saturation by 10% instead.





 51.5912, 0.3173,  
0.2311


 51.5912, 0.3173,  
0.2311


392.8564, 0.3167,  
0.2748

 36.6793, 0.3171,  
0.2216

 92.5281, 0.3174,  
0.2459

 24.9593, 0.3167,  
0.2101


 119.3219, 0.3173,  
0.2518

 16.0467, 0.3159,  
0.1960


150.8451, 0.3172,  
0.2569

 9.5572, 0.3144,  
0.1783

187.4821, 0.3171,  
0.2613

 5.1064, 0.3115,  
0.1556

229.6174, 0.3170,  
0.2653

 2.3098, 0.3060,  
0.1259

277.6352, 0.3169,

 0.7789, 0.2944,

0.2688

0.0866

331.9201, 0.3168,  
0.2720

0.0000, 0.2781,  
0.0000

0.0000, 0.0000,  
0.0000

51.5912, 0.3173,  
0.2311

51.5912, 0.3173,  
0.2311

44.0495, 0.3183,  
0.2091

60.9250, 0.3162,  
0.2551

38.1789, 0.3192,  
0.1901

72.1482, 0.3150,  
0.2802

33.8544, 0.3199,  
0.1748

85.3593, 0.3138,  
0.3054

30.9303, 0.3204,  
0.1638

99.9953, 0.3127,  
0.3290

■ 29.2335, 0.3208,  
0.1572

99.9958, 0.3127,  
0.3290

■ 28.4927, 0.3209,  
0.1542

99.9963, 0.3127,  
0.3290

■ 28.4702, 0.3209,  
0.1541

99.9968, 0.3127,  
0.3290

99.9974, 0.3127,  
0.3290

99.9979, 0.3127,  
0.3290

# Harmonies

## Analogous

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



51.5912, 0.2405, 0.2066



51.5912, 0.3173, 0.2311



51.5912, 0.4039, 0.2751

# Triad

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



51.5912, 0.3173, 0.2311



51.5912, 0.4394, 0.4495



51.5912, 0.1795, 0.2967

# Complementary

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



51.5912, 0.3173, 0.2311



80.7159, 0.3070, 0.4512

# 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.



51.5912, 0.2210, 0.3867



51.5912, 0.3173, 0.2311



51.5912, 0.3704, 0.4844

# Square

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



51.5912, 0.3173, 0.2311



51.5912, 0.4774, 0.3920



51.5912, 0.2905, 0.4649



51.5912, 0.1701, 0.2345



# Rectangle

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



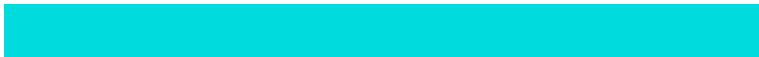
51.5912, 0.3173, 0.2311



51.5912, 0.4503, 0.3117



51.5912, 0.2905, 0.4649



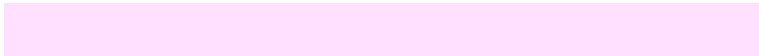
51.5912, 0.1897, 0.3248

# Sweetspot

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



51.5935, 0.3173, 0.2311



82.0060, 0.3141, 0.2993



37.7712, 0.2393, 0.2091



17.1722, 0.3143, 0.2961



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.



51.5935, 0.3173, 0.2311



45.1433, 0.3182, 0.2124



48.8420, 0.3606, 0.2754



18.3003, 0.3138, 0.3056



14.8788, 0.3209, 0.1541



1.4487, 0.3209, 0.1541



# Inverse Universe

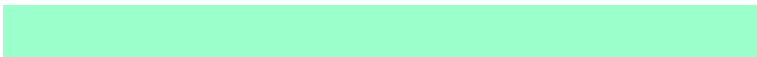
The Inverse Universe completely reimagines the original color for something new.



46.7111, 0.4133, 0.3293



39.6085, 0.4472, 0.3294



82.6842, 0.2827, 0.3905



17.9871, 0.3295, 0.3290



11.1089, 0.6401, 0.3300



1.0816, 0.6400, 0.3300



# Previews

## White Background



This preview shows how the Yxy color 51.5912, 0.3173, 0.2311 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

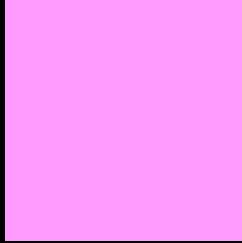
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.5912, 0.3173, 0.2311 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

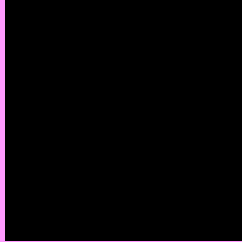
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.5912, 0.3173, 0.2311**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.5912, 0.3173, 0.2311.



This preview shows how white text looks on a background with the Yxy color 51.5912, 0.3173, 0.2311.

# 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

51.5912, 0.3173, 0.2311

### Protanopia

51.7325, 0.2552, 0.2509

### Deuteranopia

51.8452, 0.2636, 0.2568



## Tritanopia

51.7197, 0.3718, 0.3162

# Trichromacy



## Original Color

51.5912, 0.3173, 0.2311



## Protanomaly

50.6882, 0.2750, 0.2417



## Deuteranomaly

50.7468, 0.2812, 0.2452



## Tritanomaly

51.2941, 0.3508, 0.2818

# Monochromacy



## Original Color

51.5912, 0.3173, 0.2311



## Achromatopsia

55.2011, 0.3127, 0.3290



## Achromatomaly

52.8092, 0.3146, 0.2881

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.5912, 0.3173, 0.2311 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(255, 154, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 154, 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(255, 154, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 154, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 51.5912, 0.3173, 0.2311 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(255, 154, 255) }
```

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

```
.border{ border-color:rgb(255, 154, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 154, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 154, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 154, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 154,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.5912, 0.3173, 0.2311 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 154, 255) }
```

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

```
.background{ background-color: rgb(255,  
154, 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