

# Converting Colors

$Y_{xy}(53.0984, 0.2721, 0.1982)$

Have a look what the booklet for  
Yxy(53.0984, 0.2721, 0.1982)  
contains.

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# Color

**Yxy(49.8491, 0.3015, 0.2311)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EC9FFF
RGB	236, 159, 255
RGB Percent	93%, 62%, 100%
CMY	0.0746, 0.3764, 0.0000
CMYK	0.07, 0.38, 0.00, 0.00
HSL	288°, 100%, 81%
HSV	288°, 38%, 100%
XYZ	65.0346, 49.8491, 100.8199
YIQ	192.9670, 15.0760, 46.1800

# Conversions

## Conversions Part 2

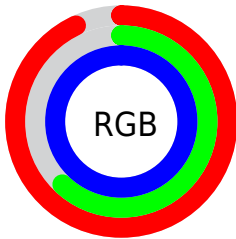
Format	Color
R <sub>Y</sub> B	236, 159, 255
Decimal	15507455
CIE Lab	75.98, 44.14, -36.36
CIE LCh	76, 57.187, 320.526
Yxy	49.8491, 0.3015, 0.2311
Android (android.graphics.Color)	4293697535 (0xFFEC9FFF)
YUV	192.9670, 30.5823, 37.7399
Hunter-Lab	70.6039, 40.8630, -35.2413

# Details

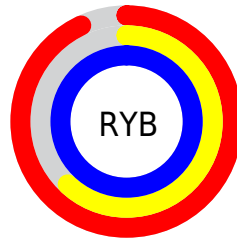
The Yxy color **49.8491, 0.3015, 0.2311** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **83.4946, 0.3185, 0.4403**, and the grayscale version is **53.1183, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.0809, 0.3145, 0.2900**, and **23.9690, 0.2973, 0.2099** is the 20% darker color. If you saturate the color by 10%, you get **41.1115, 0.2972, 0.2056**, and if you desaturate by 10%, it is **60.4216, 0.3053, 0.2577**.

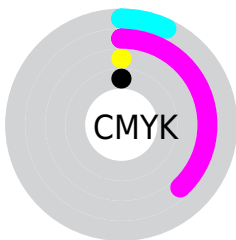
# Distribution



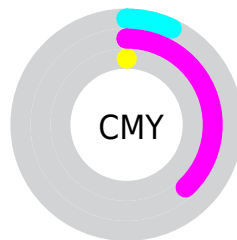
- Red (93%)
- Green (62%)
- Blue (100%)



- Red (93%)
- Yellow (62%)
- Blue (100%)



- Cyan (7%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (7%)
- Magenta (38%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.8491, 0.3015, 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 49.8491, 0.3015, 0.2311 by changing the saturation by 10% instead.





 49.8491, 0.3015,  
0.2311


 49.8491, 0.3015,  
0.2311


386.0755, 0.3083,  
0.2753

 35.2935, 0.2996,  
0.2214


 89.9513, 0.3042,  
0.2461

 23.8891, 0.2970,  
0.2096


 116.2666, 0.3051,  
0.2521

 15.2513, 0.2934,  
0.1951


147.2707, 0.3059,  
0.2572

 8.9960, 0.2883,  
0.1768


183.3479, 0.3066,  
0.2617

 4.7386, 0.2806,  
0.1533

224.8825, 0.3071,  
0.2657

 2.0947, 0.2680,  
0.1225

272.2591, 0.3076,

 0.6616, 0.2463,

0.2692

0.0800

325.8620, 0.3080,  
0.2724

0.0000, 0.2060,  
0.0000

0.0000, 0.0000,  
0.0000

49.8491, 0.3015,  
0.2311

49.8491, 0.3015,  
0.2311

41.1115, 0.2972,  
0.2056

60.4216, 0.3053,  
0.2577

34.0943, 0.2925,  
0.1822

72.9294, 0.3084,  
0.2842

28.6737, 0.2874,  
0.1620

87.4682, 0.3111,  
0.3101

24.7079, 0.2820,  
0.1459

100.0000, 0.3127,  
0.3290

■ 22.0300, 0.2767,  
0.1345

■ 20.4197, 0.2714,  
0.1275

■ 20.1193, 0.2702,  
0.1262

# Harmonies

## Analogous

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



49.8491, 0.2341, 0.2124



49.8491, 0.3015, 0.2311



49.8491, 0.3817, 0.2695

# Triad

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



49.8491, 0.3015, 0.2311



49.8491, 0.4413, 0.4327



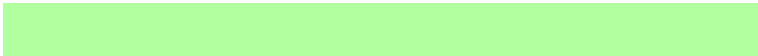
49.8491, 0.1939, 0.3153

# Complementary

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



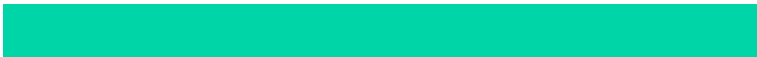
49.8491, 0.3015, 0.2311



83.4946, 0.3185, 0.4403

# 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.



49.8491, 0.2393, 0.3990



49.8491, 0.3015, 0.2311



49.8491, 0.3819, 0.4695

# Square

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



49.8491, 0.3015, 0.2311



49.8491, 0.4674, 0.3780



49.8491, 0.3080, 0.4618



49.8491, 0.1786, 0.2508



# Rectangle

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



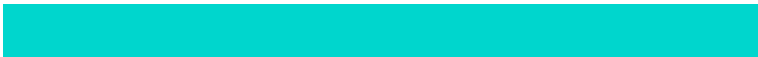
49.8491, 0.3015, 0.2311



49.8491, 0.4284, 0.3028



49.8491, 0.3080, 0.4618



49.8491, 0.2058, 0.3426

# Sweetspot

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



49.8498, 0.3015, 0.2311



82.3512, 0.3102, 0.3015



46.5188, 0.2467, 0.2375



17.1989, 0.3099, 0.2980



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.



49.8498, 0.3015, 0.2311



43.2465, 0.2984, 0.2122



51.5646, 0.3413, 0.2611



18.1078, 0.3106, 0.3054



10.5769, 0.2711, 0.1267



1.0740, 0.2770, 0.1300



# Inverse Universe

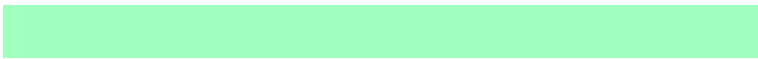
The Inverse Universe completely reimagines the original color for something new.



49.2787, 0.3870, 0.3092



42.7338, 0.4094, 0.3055



82.5155, 0.2928, 0.4087



18.0459, 0.3263, 0.3243



11.2482, 0.6084, 0.3125



1.1098, 0.5787, 0.2962



# Previews

## White Background



This preview shows how the Yxy color 49.8491, 0.3015, 0.2311 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

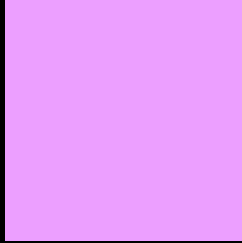
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.8491, 0.3015, 0.2311 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

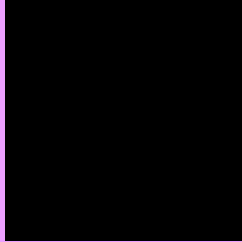
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 49.8491, 0.3015, 0.2311**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.8491, 0.3015, 0.2311.

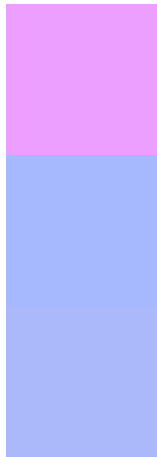


This preview shows how white text looks on a background with the Yxy color 49.8491, 0.3015, 0.2311.

# 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

49.8491, 0.3015, 0.2311

### Protanopia

50.0249, 0.2522, 0.2468

### Deuteranopia

50.2580, 0.2582, 0.2524



## Tritanopia

49.6437, 0.3485, 0.3130

# Trichromacy



## Original Color

49.8491, 0.3015, 0.2311



## Protanomaly

49.3470, 0.2678, 0.2400



## Deuteranomaly

49.6810, 0.2725, 0.2435



## Tritanomaly

49.5817, 0.3309, 0.2803

# Monochromacy



## Original Color

49.8491, 0.3015, 0.2311



## Achromatopsia

53.3276, 0.3127, 0.3290



## Achromatomaly

51.5609, 0.3088, 0.2884

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.8491, 0.3015, 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(236, 159, 255)` looks like.

```
.text, #text, p{  
    color:rgb(236, 159, 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(236, 159, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 159, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 49.8491, 0.3015, 0.2311 is called "border". The border property can be set on classes, ids or directly on the HTML element.

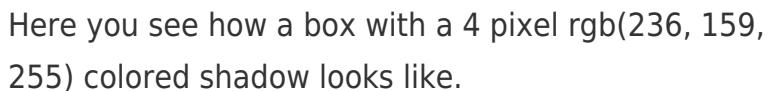
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(236, 159, 255) }
```

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

```
.border{ border-color:rgb(236, 159, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(236, 159, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(236, 159, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(236, 159, 255); box-shadow:4px 4px 4px 4px rgb(236, 159, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.8491, 0.3015, 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(236, 159, 255) }
```

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

```
.background{ background-color: rgb(236,  
159, 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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