

# Converting Colors

$Y_{xy}(44.6571, 0.2514, 0.2300)$

Have a look what the booklet for  
Yxy(44.6571, 0.2514, 0.2300)  
contains.

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# Color

**Yxy(44.6707, 0.2512, 0.2302)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A8ABFF
RGB	168, 171, 255
RGB Percent	66%, 67%, 100%
CMY	0.3415, 0.3293, 0.0001
CMYK	0.34, 0.33, 0.00, 0.00
HSL	238°, 100%, 83%
HSV	238°, 34%, 100%
XYZ	48.7458, 44.6707, 100.6352
YIQ	179.6790, -28.7520, 25.4880

# Conversions

## Conversions Part 2

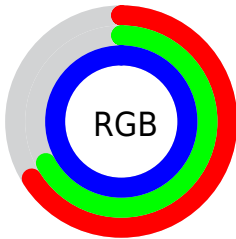
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	168, 171, 255
Decimal	11054079
CIE Lab	72.67, 18.01, -41.93
CIE LCh	73, 45.632, 293.240
Yxy	44.6707, 0.2512, 0.2302
Android (android.graphics.Color)	4289244159 (0xFFA8ABFF)
YUV	179.6790, 37.1333, -10.2425
Hunter-Lab	66.8361, 13.2226, -42.4877

# Details

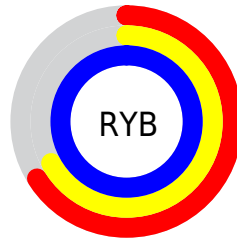
The Yxy color `44.6707, 0.2512, 0.2302` is a light color, and the websafe version is hex `9999FF`. A complement of this color would be `93.6184, 0.3653, 0.4117`, and the grayscale version is `45.2657, 0.3127, 0.3290`.

A 20% lighter version of the original color is `77.6203, 0.2940, 0.2991`, and `20.7816, 0.2347, 0.2066` is the 20% darker color. If you saturate the color by 10%, you get `33.7013, 0.2299, 0.1956`, and if you desaturate by 10%, it is `57.9199, 0.2714, 0.2629`.

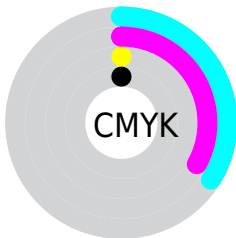
# Distribution



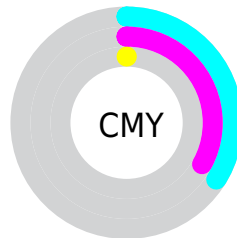
- Red (66%)
- Green (67%)
- Blue (100%)



- Red (66%)
- Yellow (67%)
- Blue (100%)



- Cyan (34%)
- Magenta (33%)
- Yellow (0%)
- Black (0%)



- Cyan (34%)
- Magenta (33%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.6707, 0.2512, 0.2302 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 44.6707, 0.2512, 0.2302 by changing the saturation by 10% instead.



■ 44.6707, 0.2512,  
0.2302

■ 44.6707, 0.2512,  
0.2302

365.4382, 0.2818,  
0.2766

■ 31.1981, 0.2438,  
0.2196

■ 82.2260, 0.2622,  
0.2463

■ 20.7498, 0.2345,  
0.2067

107.0776, 0.2663,  
0.2526

■ 12.9412, 0.2225,  
0.1905

136.4909, 0.2699,  
0.2580

■ 7.3881, 0.2066,  
0.1698

170.8505, 0.2729,  
0.2627

■ 3.7060, 0.1848,  
0.1429

210.5406, 0.2756,  
0.2668

■ 1.5105, 0.1537,  
0.1075

255.9456, 0.2779,

■ 0.2961, 0.1099,

0.2704


0.0451


307.4501, 0.2799,  
0.2737


 0.0000, 0.0000,  
0.0000


 44.6707, 0.2512,  
0.2302

 44.6707, 0.2512,  
0.2302


 33.7013, 0.2299,  
0.1956

 57.9199, 0.2714,  
0.2629


 24.8783, 0.2086,  
0.1606


 73.5620, 0.2899,  
0.2926

 18.0627, 0.1888,  
0.1277

 91.7086, 0.3065,  
0.3191

 13.0967, 0.1720,  
0.0995

 99.9981, 0.3127,  
0.3290

 9.7991, 0.1597,  
0.0783

■ 7.9519, 0.1526,  
0.0654

■ 7.4152, 0.1504,  
0.0615

# Harmonies

## Analogous

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



44.6707, 0.2127, 0.2335



44.6707, 0.2512, 0.2302



44.6707, 0.3100, 0.2480

# Triad

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



44.6707, 0.2512, 0.2302



44.6707, 0.4414, 0.3775



44.6707, 0.2476, 0.3804

# Complementary

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



44.6707, 0.2512, 0.2302



93.6184, 0.3653, 0.4117

# 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.



44.6707, 0.3048, 0.4336



44.6707, 0.2512, 0.2302



44.6707, 0.4181, 0.4219

# Square

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



44.6707, 0.2512, 0.2302



44.6707, 0.4263, 0.3282



44.6707, 0.3674, 0.4467



44.6707, 0.2102, 0.3133



# Rectangle

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



44.6707, 0.2512, 0.2302



44.6707, 0.3545, 0.2695



44.6707, 0.3674, 0.4467



44.6707, 0.2650, 0.4014

# Sweetspot

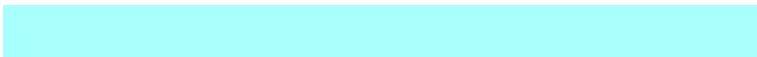
The Sweet Spot groups the original color and five complimentary colors.



44.6724, 0.2512, 0.2302



80.7815, 0.2970, 0.3040



86.7594, 0.2662, 0.3336



16.7567, 0.2946, 0.3002



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.



44.6724, 0.2512, 0.2302



36.9154, 0.2367, 0.2066



48.4770, 0.2790, 0.2340



17.4814, 0.2978, 0.3053



3.9205, 0.1506, 0.0621



0.4166, 0.1520, 0.0672



# Inverse Universe

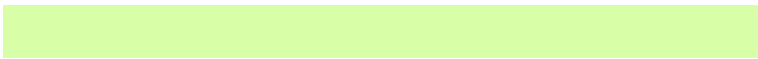
The Inverse Universe completely reimagines the original color for something new.



52.1752, 0.3909, 0.3260



45.5555, 0.4147, 0.3254



88.8946, 0.3378, 0.4225



17.9975, 0.3289, 0.3282



11.1237, 0.6365, 0.3280

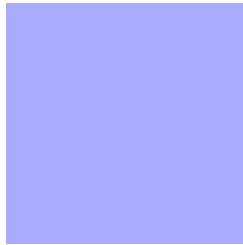


1.0866, 0.6280, 0.3233



# Previews

## White Background



This preview shows how the Yxy color 44.6707, 0.2512, 0.2302 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

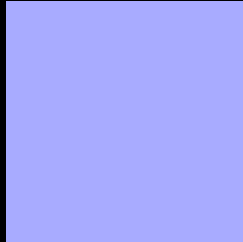
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.6707, 0.2512, 0.2302 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

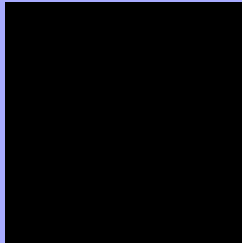
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 44.6707, 0.2512, 0.2302**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.6707, 0.2512, 0.2302.



This preview shows how white text looks on a background with the Yxy color 44.6707, 0.2512, 0.2302.

# 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

44.6707, 0.2512, 0.2302

### Protanopia

44.6522, 0.2423, 0.2326

### Deuteranopia

44.6905, 0.2412, 0.2344



## Tritanopia

44.8668, 0.2800, 0.3100

# Trichromacy



## Original Color

44.6707, 0.2512, 0.2302

## Protanomaly

44.7612, 0.2453, 0.2322

## Deuteranomaly

44.5960, 0.2452, 0.2330

## Tritanomaly

44.7757, 0.2692, 0.2786

# Monochromacy



## Original Color

44.6707, 0.2512, 0.2302

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.1794, 0.2888, 0.2906

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.6707, 0.2512, 0.2302 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(168, 171, 255)` looks like.

```
.text, #text, p{  
    color:rgb(168, 171, 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(168, 171, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 171, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 44.6707, 0.2512, 0.2302 is called "border". The border property can be set on classes, ids or directly on the HTML element.

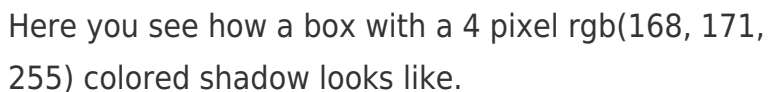
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(168, 171, 255) }
```

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

```
.border{ border-color:rgb(168, 171, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(168, 171, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(168, 171, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(168, 171, 255); box-shadow:4px 4px 4px 4px rgb(168, 171, 255) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.6707, 0.2512, 0.2302 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 171, 255) }
```

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

```
.background{ background-color: rgb(168,  
171, 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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