

# Converting Colors

$Y_{xy}(38.7521, 0.2511, 0.2098)$

Have a look what the booklet for  
Yxy(38.7521, 0.2511, 0.2098)  
contains.

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# Color

**Yxy(38.7731, 0.2513, 0.2097)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AC99FF
RGB	172, 153, 255
RGB Percent	67%, 60%, 100%
CMY	0.3253, 0.4001, 0.0000
CMYK	0.33, 0.40, 0.00, 0.00
HSL	251°, 100%, 80%
HSV	251°, 40%, 100%
XYZ	46.4649, 38.7731, 99.6600
YIQ	170.3090, -21.4180, 35.7500

# Conversions

## Conversions Part 2

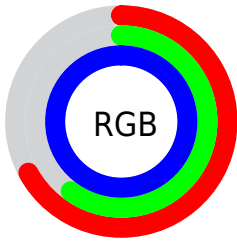
Format	Color
<a href="#">RYB</a>	<a href="#">172, 153, 255</a>
Decimal	<a href="#">11311615</a>
CIELab	<a href="#">68.59, 29.28, -48.35</a>
CIELCh	<a href="#">69, 56.524, 301.204</a>
Yxy	<a href="#">38.7731, 0.2513, 0.2097</a>
Android (android.graphics.Color)	<a href="#">4289501695</a> ( <a href="#">0xFFAC99FF</a> )
YUV	<a href="#">170.3090, 41.7527, 1.4830</a>
Hunter-Lab	<a href="#">62.2680, 24.2289, -51.3060</a>

# Details

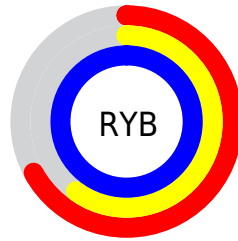
The Yxy color **38.7731, 0.2513, 0.2097** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **91.6404, 0.3597, 0.4332**, and the grayscale version is **40.1585, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.6686, 0.2971, 0.2795**, and **17.2930, 0.2330, 0.1820** is the 20% darker color. If you saturate the color by 10%, you get **29.1334, 0.2323, 0.1757**, and if you desaturate by 10%, it is **50.5623, 0.2693, 0.2431**.

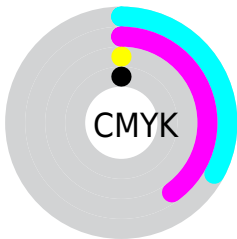
# Distribution



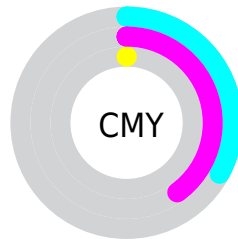
- Red (67%)
- Green (60%)
- Blue (100%)



- Red (67%)
- Yellow (60%)
- Blue (100%)



- Cyan (33%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)




- Cyan (33%)
- Magenta (40%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.7731, 0.2513, 0.2097 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 38.7731, 0.2513, 0.2097 by changing the saturation by 10% instead.





 38.7731, 0.2513,  
0.2097


 38.7731, 0.2513,  
0.2097


340.9248, 0.2829,  
0.2654

 26.5833, 0.2435,  
0.1972


 73.2916, 0.2628,  
0.2289

 17.2605, 0.2335,  
0.1820


 96.3890, 0.2671,  
0.2364

 10.4204, 0.2205,  
0.1632


123.8910, 0.2708,  
0.2429

 5.6786, 0.2031,  
0.1397

156.1821, 0.2739,  
0.2486

 2.6506, 0.1790,  
0.1100

193.6467, 0.2766,  
0.2536

 0.9522, 0.1447,  
0.0732

236.6690, 0.2789,

 0.0000, 0.0948,

0.2580

0.0000

285.6336, 0.2810,  
0.2619

0.0000, 0.0000,  
0.0000

38.7731, 0.2513,  
0.2097

38.7731, 0.2513,  
0.2097

29.1334, 0.2323,  
0.1757

50.5623, 0.2693,  
0.2431

21.5114, 0.2130,  
0.1428

64.6212, 0.2856,  
0.2745

15.7610, 0.1947,  
0.1133

81.0612, 0.3001,  
0.3033

11.7157, 0.1787,  
0.0896

99.9861, 0.3127,  
0.3290

9.1788, 0.1662,  
0.0733

100.0000, 0.3127,  
0.3290

■ 7.8402, 0.1576,  
0.0642

# Harmonies

## Analogous

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



38.7731, 0.1972, 0.2054



38.7731, 0.2513, 0.2097



38.7731, 0.3307, 0.2374

# Triad

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



38.7731, 0.2513, 0.2097



38.7731, 0.4732, 0.4011



38.7731, 0.2133, 0.3719

# Complementary

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



38.7731, 0.2513, 0.2097



91.6404, 0.3597, 0.4332

# 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.



38.7731, 0.2789, 0.4547



38.7731, 0.2513, 0.2097



38.7731, 0.4295, 0.4563

# Square

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



38.7731, 0.2513, 0.2097



38.7731, 0.4702, 0.3405



38.7731, 0.3581, 0.4843



38.7731, 0.1769, 0.2853



# Rectangle

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



38.7731, 0.2513, 0.2097



38.7731, 0.3885, 0.2665



38.7731, 0.3581, 0.4843



38.7731, 0.2324, 0.4026

# Sweetspot

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



38.7732, 0.2513, 0.2097



77.5894, 0.2974, 0.2978



74.1526, 0.2541, 0.3075



16.1317, 0.2955, 0.2941



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.



38.7732, 0.2513, 0.2097



30.9017, 0.2361, 0.1825



45.6362, 0.2906, 0.2219



17.5410, 0.3008, 0.3046



4.1431, 0.1586, 0.0647



0.4449, 0.1681, 0.0700



# Inverse Universe

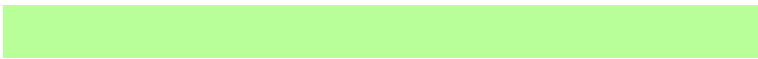
The Inverse Universe completely reimagines the original color for something new.



50.0889, 0.3334, 0.2464



43.7588, 0.3387, 0.2310



84.1695, 0.3260, 0.4456



18.2387, 0.3167, 0.3099



13.4923, 0.3748, 0.1839

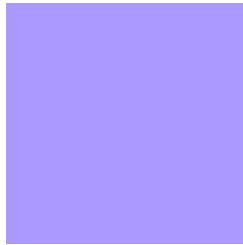


1.3281, 0.3675, 0.1798



# Previews

## White Background



This preview shows how the Yxy color 38.7731, 0.2513, 0.2097 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

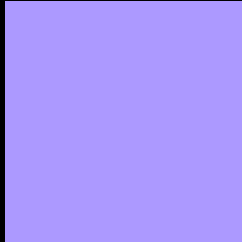
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.7731, 0.2513, 0.2097 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

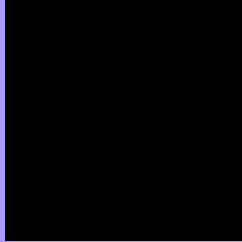
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.7731, 0.2513, 0.2097**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.7731, 0.2513, 0.2097.



This preview shows how white text looks on a background with the Yxy color 38.7731, 0.2513, 0.2097.

# 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

38.7731, 0.2513, 0.2097

### Protanopia

38.9218, 0.2293, 0.2160

### Deuteranopia

38.8127, 0.2267, 0.2202



## Tritanopia

38.9214, 0.2916, 0.3106

# Trichromacy



**Original Color**

38.7731, 0.2513, 0.2097

**Protanomaly**

38.6575, 0.2363, 0.2132

**Deuteranomaly**

38.4212, 0.2344, 0.2154

**Tritanomaly**

38.4792, 0.2750, 0.2679

# Monochromacy



**Original Color**

38.7731, 0.2513, 0.2097

**Achromatopsia**

40.1978, 0.3127, 0.3290

**Achromatomaly**

39.4259, 0.2885, 0.2801

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.7731, 0.2513, 0.2097 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(172, 153, 255)` looks like.

```
.text, #text, p{  
    color:rgb(172, 153, 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(172, 153, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 153, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 38.7731, 0.2513, 0.2097 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(172, 153, 255) }
```

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

```
.border{ border-color:rgb(172, 153, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 153, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 153, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 153, 255);  
box-shadow:4px 4px 4px 4px rgb(172, 153,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.7731, 0.2513, 0.2097 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 153, 255) }
```

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

```
.background{ background-color: rgb(172,  
153, 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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