

# Converting Colors

$Y_{xy}(74.8230, 0.2828, 0.4905)$

Have a look what the booklet for  
Yxy(74.8230, 0.2828, 0.4905)  
contains.

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# Color

**Yxy(74.8609, 0.2828, 0.4900)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4EFF86
RGB	78, 255, 134
RGB Percent	31%, 100%, 53%
CMY	0.6939, 0.0000, 0.4747
CMYK	0.69, 0.00, 0.47, 0.00
HSL	139°, 100%, 65%
HSV	139°, 69%, 100%
XYZ	43.2054, 74.8609, 34.7110
YIQ	188.2830, -66.6510, -75.1550

# Conversions

## Conversions Part 2

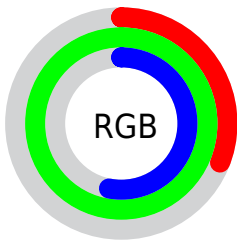
<b>Format</b>	<b>Color</b>
<b>RYB</b>	78, 212, 255
Decimal	5177222
CIELab	89.33, -69.55, 44.97
CIELCh	89, 82.826, 147.112
Yxy	74.8609, 0.2828, 0.4900
Android (android.graphics.Color)	4283367302 (0xFF4EFF86)
YUV	188.2830, -26.7615, -96.7182
Hunter-Lab	86.5222, -62.2787, 36.7795

# Details

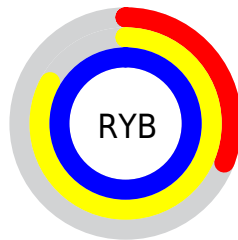
The Yxy color **74.8609, 0.2828, 0.4900** is a light color, and the websafe version is hex **33FF99**. The color can be described as light washed spring green. A complement of this color would be **30.8435, 0.3815, 0.2167**, and the grayscale version is **50.6482, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.3972, 0.2860, 0.4086**, and **40.5417, 0.2801, 0.5285** is the 20% darker color. If you saturate the color by 10%, you get **73.5378, 0.2831, 0.5154**, and if you desaturate by 10%, it is **76.6837, 0.2842, 0.4634**.

# Distribution



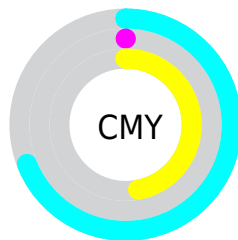
- Red (31%)
- Green (100%)
- Blue (53%)



- Red (31%)
- Yellow (83%)
- Blue (100%)



- Cyan (69%)
- Magenta (0%)
- Yellow (47%)
- Black (0%)



- Cyan (69%)
- Magenta (0%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 74.8609, 0.2828, 0.4900 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 74.8609, 0.2828, 0.4900 by changing the saturation by 10% instead.





 74.8609, 0.2828,  
0.4900

 74.8609, 0.2828,  
0.4900


477.4393, 0.3005,  
0.4095

 55.4989, 0.2777,  
0.5096


 126.1154, 0.2898,  
0.4610


 39.8013, 0.2708,  
0.5344

 158.7768, 0.2922,  
0.4500

 27.3837, 0.2612,  
0.5665


 196.6401, 0.2943,  
0.4407

 17.8616, 0.2472,  
0.6091

 240.0897, 0.2959,  
0.4327

 10.8507, 0.2254,  
0.6673

289.5101, 0.2973,  
0.4257

 5.9665, 0.1924,  
0.7579


345.2855, 0.2986,


 2.8247, 0.1063,


0.4196

0.8937


407.8005, 0.2996,  
0.4143

 1.0409, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 74.8609, 0.2828,  
0.4900


 74.8609, 0.2828,  
0.4900


 73.5378, 0.2831,  
0.5154


 76.6837, 0.2842,  
0.4634

 72.6560, 0.2851,  
0.5384

 79.0498, 0.2871,  
0.4367

 72.1336, 0.2884,  
0.5579

 82.0016, 0.2912,  
0.4111

 72.1077, 0.2886,  
0.5590

 85.5760, 0.2961,  
0.3871

 89.8072, 0.3016,  
0.3652

 94.7266, 0.3073,  
0.3455

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



74.8609, 0.3736, 0.5100



74.8609, 0.2828, 0.4900



74.8609, 0.2050, 0.3944

# Triad

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



74.8609, 0.2828, 0.4900



74.8609, 0.1750, 0.1893



74.8609, 0.4920, 0.3296

# Complementary

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



74.8609, 0.2828, 0.4900



30.8435, 0.3815, 0.2167

# 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.



74.8609, 0.4203, 0.2677



74.8609, 0.2828, 0.4900



74.8609, 0.2308, 0.1911

# Square

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



74.8609, 0.2828, 0.4900



74.8609, 0.1519, 0.2186



74.8609, 0.3188, 0.2187



74.8609, 0.5012, 0.3972



# Rectangle

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



74.8609, 0.2828, 0.4900



74.8609, 0.1713, 0.3201



74.8609, 0.3188, 0.2187



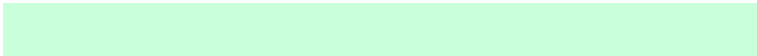
74.8609, 0.4742, 0.3081

# Sweetspot

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



74.8619, 0.2828, 0.4900



89.0813, 0.3007, 0.3686



84.6155, 0.3694, 0.5085



18.8090, 0.2991, 0.3745



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.



74.8619, 0.2828, 0.4900



73.1719, 0.2836, 0.5241



78.2885, 0.2467, 0.3730



20.2627, 0.3072, 0.3457



37.7015, 0.2878, 0.5561



3.6897, 0.2816, 0.5336



# Inverse Universe

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



30.8435, 0.3815, 0.2167



26.6496, 0.4002, 0.2083



27.9180, 0.5021, 0.2984



18.1969, 0.3187, 0.3129



12.7427, 0.4210, 0.2093

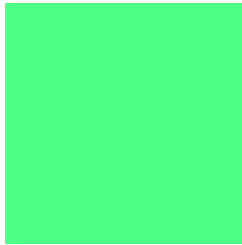


1.2605, 0.4067, 0.2014



# Previews

## White Background



This preview shows how the Yxy color 74.8609, 0.2828, 0.4900 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

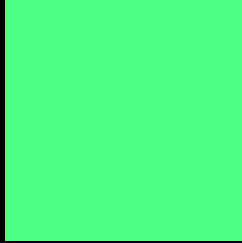
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 74.8609, 0.2828, 0.4900 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

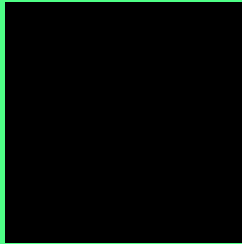
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 74.8609, 0.2828, 0.4900**

## **Background**



This preview shows how black text looks on a background with the Yxy color 74.8609, 0.2828, 0.4900.

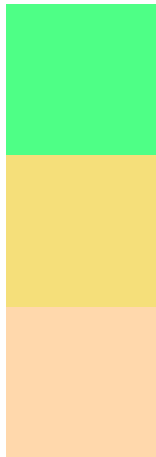


This preview shows how white text looks on a background with the Yxy color 74.8609, 0.2828, 0.4900.

# 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

74.8609, 0.2828, 0.4900

### Protanopia

73.5930, 0.3969, 0.4324

### Deuteranopia

73.3503, 0.3738, 0.3744



## Tritanopia

74.1199, 0.2494, 0.3093

# Trichromacy



## Original Color

74.8609, 0.2828, 0.4900



## Protanomaly

71.1134, 0.3435, 0.4588



## Deuteranomaly

70.1386, 0.3310, 0.4149



## Tritanomaly

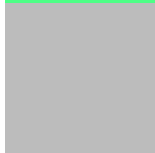
73.3265, 0.2611, 0.3702

# Monochromacy



## Original Color

74.8609, 0.2828, 0.4900



## Achromatopsia

50.2886, 0.3127, 0.3290



## Achromatomaly

56.2100, 0.2960, 0.3885

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 74.8609, 0.2828, 0.4900 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(78, 255, 134)` looks like.

```
.text, #text, p{  
    color:rgb(78, 255, 134)  
}
```

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(78, 255, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 255, 134) }
```

## Border

The CSS property to change the border of an element to Yxy 74.8609, 0.2828, 0.4900 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(78, 255, 134) }
```

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

```
.border{ border-color:rgb(78, 255, 134) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 255, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 255, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 255, 134);  
box-shadow:4px 4px 4px 4px rgb(78, 255,  
134) }
```



# Background

The CSS property to change the background color of an element to Yxy 74.8609, 0.2828, 0.4900 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 255, 134) }
```

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

```
.background{ background-color: rgb(78, 255,  
134) }
```

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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