

# Converting Colors

$Y_{xy}(77.1098, 0.2979, 0.4830)$

Have a look what the booklet for  
Yxy(77.1098, 0.2979, 0.4830)  
contains.

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# Color

**Yxy(77.0928, 0.2979, 0.4832)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76FF86
RGB	118, 255, 134
RGB Percent	46%, 100%, 53%
CMY	0.5374, 0.0000, 0.4745
CMYK	0.54, 0.00, 0.47, 0.00
HSL	127°, 100%, 73%
HSV	127°, 54%, 100%
XYZ	47.5289, 77.0928, 34.9247
YIQ	200.2430, -42.8110, -66.6750

# Conversions

## Conversions Part 2

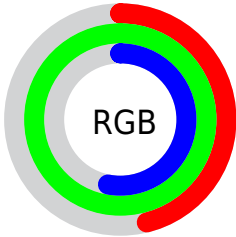
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">118, 241, 255</a>
Decimal	<a href="#">7798662</a>
CIELab	<a href="#">90.36, -61.60, 46.48</a>
CIElCh	<a href="#">90, 77.170, 142.964</a>
Yxy	<a href="#">77.0928, 0.2979, 0.4832</a>
Android (android.graphics.Color)	<a href="#">4285988742 (0xFF76FF86)</a>
YUV	<a href="#">200.2430, -32.6578, -72.1271</a>
Hunter-Lab	<a href="#">87.8025, -57.0296, 37.8783</a>

# Details

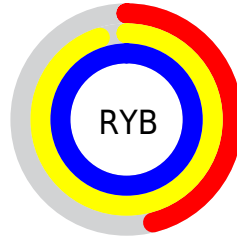
The Yxy color **77.0928, 0.2979, 0.4832** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **40.4361, 0.3334, 0.2130**, and the grayscale version is **58.1314, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.7778, 0.3033, 0.4047**, and **41.2047, 0.2900, 0.5248** is the 20% darker color. If you saturate the color by 10%, you get **74.9770, 0.2964, 0.5154**, and if you desaturate by 10%, it is **79.8178, 0.3001, 0.4502**.

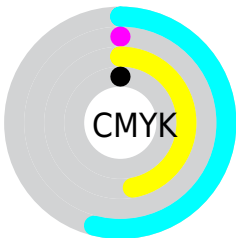
# Distribution



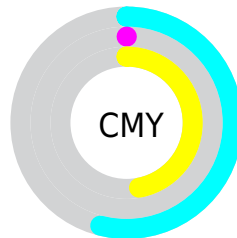
- Red (46%)
- Green (100%)
- Blue (53%)



- Red (46%)
- Yellow (95%)
- Blue (100%)



- Cyan (54%)
- Magenta (0%)
- Yellow (47%)
- Black (0%)




- Cyan (54%)
- Magenta (0%)
- Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.0928, 0.2979, 0.4832 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 77.0928, 0.2979, 0.4832 by changing the saturation by 10% instead.





 77.0928, 0.2979,  
0.4832

 77.0928, 0.2979,  
0.4832


485.0804, 0.3084,  
0.4070


 57.3290, 0.2945,  
0.5015

 129.2705, 0.3023,  
0.4560

 41.2695, 0.2897,  
0.5245


 162.4532, 0.3038,  
0.4456

 28.5297, 0.2828,  
0.5539


 200.8776, 0.3050,  
0.4368

 18.7253, 0.2722,  
0.5927

244.9283, 0.3060,  
0.4292

 11.4720, 0.2550,  
0.6452

294.9895, 0.3068,  
0.4225

 6.3852, 0.2282,  
0.7252


351.4456, 0.3074,


 3.0807, 0.1718,


0.4167


0.8282


414.6811, 0.3079,  
0.4116


 1.1740, 0.0000,  
1.0000


 0.0403, 0.0000,  
1.0000


 77.0928, 0.2979,  
0.4832


 77.0928, 0.2979,  
0.4832


 74.9770, 0.2964,  
0.5154


 79.8178, 0.3001,  
0.4502


 73.4322, 0.2958,  
0.5447

 83.2056, 0.3028,  
0.4181


 72.3994, 0.2961,  
0.5687

 87.2921, 0.3057,  
0.3882

 71.8110, 0.2972,  
0.5860

 92.1134, 0.3087,  
0.3612

 71.6129, 0.2981,  
0.5931

 97.7033, 0.3116,  
0.3372

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.



77.0928, 0.3827, 0.4937



77.0928, 0.2979, 0.4832



77.0928, 0.2216, 0.4035

# Triad

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



77.0928, 0.2979, 0.4832



77.0928, 0.1788, 0.2002



77.0928, 0.4724, 0.3226

# Complementary

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



77.0928, 0.2979, 0.4832



40.4361, 0.3334, 0.2130

# 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.



77.0928, 0.4000, 0.2648



77.0928, 0.2979, 0.4832



77.0928, 0.2274, 0.1977

# Square

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



77.0928, 0.2979, 0.4832



77.0928, 0.1609, 0.2333



77.0928, 0.3061, 0.2207



77.0928, 0.4905, 0.3863



# Rectangle

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



77.0928, 0.2979, 0.4832



77.0928, 0.1862, 0.3353



77.0928, 0.3061, 0.2207



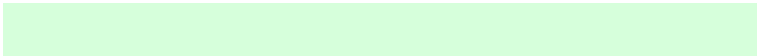
77.0928, 0.4532, 0.3023

# Sweetspot

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



77.0893, 0.2979, 0.4832



90.9593, 0.3080, 0.3670



91.1796, 0.3796, 0.4638



19.2510, 0.3074, 0.3725



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.



77.0893, 0.2979, 0.4832



74.9304, 0.2964, 0.5162



79.6548, 0.2666, 0.3938



20.2027, 0.3099, 0.3506



37.4301, 0.2977, 0.5916



3.6550, 0.2936, 0.5768



# Inverse Universe

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



40.4361, 0.3334, 0.2130



34.9303, 0.3381, 0.1963



37.1270, 0.4085, 0.2757



18.2616, 0.3156, 0.3083



13.9686, 0.3529, 0.1718

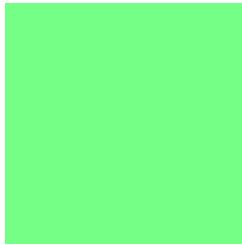


1.3700, 0.3487, 0.1695



# Previews

## White Background



This preview shows how the Yxy color 77.0928, 0.2979, 0.4832 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

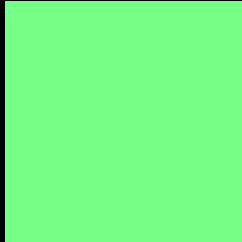
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.0928, 0.2979, 0.4832 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

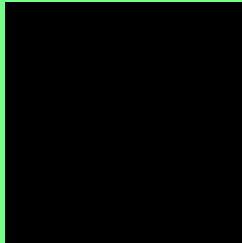
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.0928, 0.2979, 0.4832**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.0928, 0.2979, 0.4832.

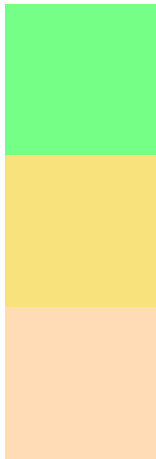


This preview shows how white text looks on a background with the Yxy color 77.0928, 0.2979, 0.4832.

# 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**

77.0928, 0.2979, 0.4832

**Protanopia**

75.8044, 0.3965, 0.4322

**Deuteranopia**

75.7826, 0.3661, 0.3691



## Tritanopia

76.2616, 0.2597, 0.3098

# Trichromacy



## Original Color

77.0928, 0.2979, 0.4832



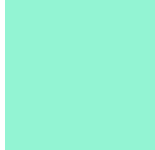
## Protanomaly

74.5444, 0.3541, 0.4530



## Deuteranomaly

73.9373, 0.3369, 0.4082



## Tritanomaly

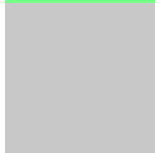
75.6076, 0.2738, 0.3688

# Monochromacy



## Original Color

77.0928, 0.2979, 0.4832



## Achromatopsia

57.7580, 0.3127, 0.3290



## Achromatomaly

62.8670, 0.3060, 0.3846

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.0928, 0.2979, 0.4832 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(118, 255, 134)` looks like.

```
.text, #text, p{  
    color:rgb(118, 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(118, 255, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 255, 134) }
```

## Border

The CSS property to change the border of an element to Yxy 77.0928, 0.2979, 0.4832 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(118, 255, 134) }
```

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

```
.border{ border-color:rgb(118, 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(118, 255, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 255, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 255, 134);  
box-shadow:4px 4px 4px 4px rgb(118, 255,  
134) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.0928, 0.2979, 0.4832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 255, 134) }
```

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

```
.background{ background-color: rgb(118,  
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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