

# Converting Colors

$Y_{xy}(100.0000, 0.2844, 0.4683)$

Have a look what the booklet for  
Yxy(100.0000, 0.2844, 0.4683)  
contains.

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# Color

**Yxy(77.8874, 0.2814, 0.4412)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72FFA7
RGB	114, 255, 167
RGB Percent	45%, 100%, 65%
CMY	0.5528, 0.0000, 0.3451
CMYK	0.55, 0.00, 0.35, 0.00
HSL	143°, 100%, 72%
HSV	143°, 55%, 100%
XYZ	49.6770, 77.8874, 48.9709
YIQ	202.8090, -55.7880, -57.2600

# Conversions

## Conversions Part 2

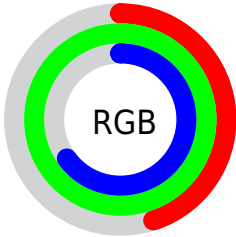
<b>Format</b>	<b>Color</b>
<b>RYB</b>	114, 216, 255
Decimal	7536551
CIELab	90.73, -57.28, 30.78
CIElCh	91, 65.027, 151.748
Yxy	77.8874, 0.2814, 0.4412
Android (android.graphics.Color)	4285726631 (0xFF72FFA7)
YUV	202.8090, -17.6538, -77.8855
Hunter-Lab	88.2538, -53.9687, 28.8784

# Details

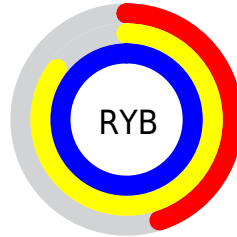
The Yxy color **77.8874, 0.2814, 0.4412** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **37.5688, 0.3723, 0.2415**, and the grayscale version is **59.7400, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.9617, 0.2833, 0.3649**, and **41.6829, 0.2719, 0.4714** is the 20% darker color. If you saturate the color by 10%, you get **75.8577, 0.2790, 0.4658**, and if you desaturate by 10%, it is **80.4705, 0.2853, 0.4172**.

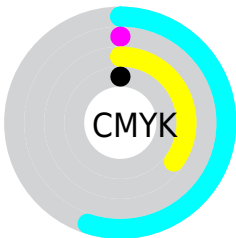
# Distribution



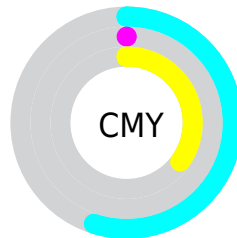
- Red (45%)
- Green (100%)
- Blue (65%)



- Red (45%)
- Yellow (85%)
- Blue (100%)



- Cyan (55%)
- Magenta (0%)
- Yellow (35%)
- Black (0%)



- Cyan (55%)
- Magenta (0%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.8874, 0.2814, 0.4412 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 77.8874, 0.2814, 0.4412 by changing the saturation by 10% instead.





 77.8874, 0.2814,  
0.4412


 77.8874, 0.2814,  
0.4412


487.7843, 0.2976,  
0.3862

 57.9815, 0.2773,  
0.4545


 130.3914, 0.2874,  
0.4216

 41.7938, 0.2719,  
0.4712


 163.7582, 0.2896,  
0.4141

 28.9398, 0.2647,  
0.4928


 202.3809, 0.2915,  
0.4077

 19.0353, 0.2548,  
0.5219

246.6436, 0.2931,  
0.4022

 11.6958, 0.2401,  
0.5627

296.9310, 0.2944,  
0.3975

 6.5369, 0.2170,  
0.6230


353.6273, 0.2956,


 3.1742, 0.1819,

0.3933


0.7376

417.1169, 0.2967,  
0.3895


 1.2233, 0.0000,  
1.0000


 0.0806, 0.0000,  
1.0000


 77.8874, 0.2814,  
0.4412


 77.8874, 0.2814,  
0.4412


 75.8577, 0.2790,  
0.4658

 80.4705, 0.2853,  
0.4172

 74.3316, 0.2783,  
0.4902


 83.6389, 0.2904,  
0.3944

 73.2609, 0.2795,  
0.5133

 87.4299, 0.2963,  
0.3734

 72.5840, 0.2825,  
0.5342

 91.8754, 0.3026,  
0.3543

 72.3609, 0.2842,  
0.5432

 97.0054, 0.3092,  
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.



77.8874, 0.3545, 0.4703



77.8874, 0.2814, 0.4412



77.8874, 0.2208, 0.3668

# Triad

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



77.8874, 0.2814, 0.4412



77.8874, 0.2066, 0.2146



77.8874, 0.4570, 0.3421

# Complementary

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



77.8874, 0.2814, 0.4412



37.5688, 0.3723, 0.2415

# 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.



77.8874, 0.4075, 0.2884



77.8874, 0.2814, 0.4412



77.8874, 0.2577, 0.2186

# Square

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



77.8874, 0.2814, 0.4412



77.8874, 0.1827, 0.2366



77.8874, 0.3310, 0.2449



77.8874, 0.4599, 0.3984



# Rectangle

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



77.8874, 0.2814, 0.4412



77.8874, 0.1948, 0.3127



77.8874, 0.3310, 0.2449



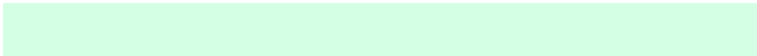
77.8874, 0.4452, 0.3235

# Sweetspot

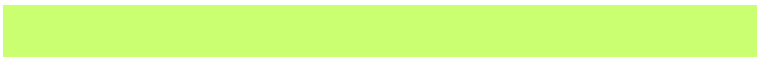
The Sweet Spot groups the original color and five complimentary colors.



77.8896, 0.2814, 0.4412



91.0630, 0.3015, 0.3575



85.4762, 0.3567, 0.4800



19.2935, 0.3002, 0.3612



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.



77.8896, 0.2814, 0.4412



75.7316, 0.2789, 0.4676



81.1678, 0.2504, 0.3511



20.2811, 0.3064, 0.3442



37.8367, 0.2834, 0.5401



3.7044, 0.2771, 0.5174



# Inverse Universe

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



37.5688, 0.3723, 0.2415



31.8235, 0.3894, 0.2290



34.9913, 0.4570, 0.3106



18.1778, 0.3196, 0.3143



12.4503, 0.4445, 0.2222

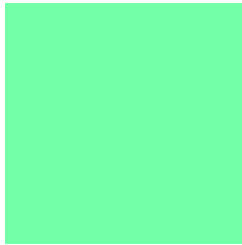


1.2335, 0.4266, 0.2124



# Previews

## White Background



This preview shows how the Yxy color 77.8874, 0.2814, 0.4412 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

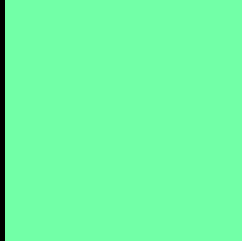
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.8874, 0.2814, 0.4412 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

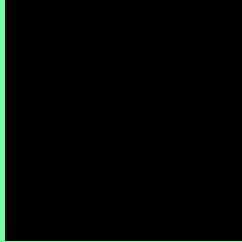
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 77.8874, 0.2814, 0.4412**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.8874, 0.2814, 0.4412.

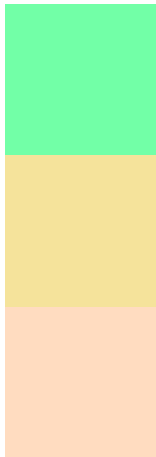


This preview shows how white text looks on a background with the Yxy color 77.8874, 0.2814, 0.4412.

# 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

77.8874, 0.2814, 0.4412

### Protanopia

76.7172, 0.3742, 0.4041

### Deuteranopia

76.2522, 0.3582, 0.3577



## Tritanopia

76.9523, 0.2604, 0.3110

# Trichromacy



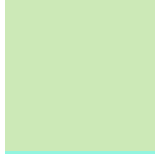
## Original Color

77.8874, 0.2814, 0.4412



## Protanomaly

74.9419, 0.3335, 0.4195



## Deuteranomaly

74.5341, 0.3243, 0.3862



## Tritanomaly

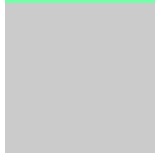
76.7435, 0.2675, 0.3551

# Monochromacy



## Original Color

77.8874, 0.2814, 0.4412



## Achromatopsia

59.7202, 0.3127, 0.3290



## Achromatomaly

64.6182, 0.2979, 0.3687

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.8874, 0.2814, 0.4412 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(114, 255, 167)` looks like.

```
.text, #text, p{  
    color:rgb(114, 255, 167)  
}
```

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(114, 255, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 255, 167) }
```

## Border

The CSS property to change the border of an element to Yxy 77.8874, 0.2814, 0.4412 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(114, 255, 167) }
```

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

```
.border{ border-color:rgb(114, 255, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 255, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 255, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 255, 167);  
box-shadow:4px 4px 4px 4px rgb(114, 255,  
167) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.8874, 0.2814, 0.4412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 255, 167) }
```

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

```
.background{ background-color: rgb(114,  
255, 167) }
```

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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