

# Converting Colors

$Yxy(77.7873, 0.2936, 0.4650)$

Have a look what the booklet for  
Yxy(77.7873, 0.2936, 0.4650)  
contains.

<b>Yxy(77.7957, 0.2935, 0.4648)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(77.7957, 0.2935, 0.4648)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AFF94
RGB	122, 255, 148
RGB Percent	48%, 100%, 58%
CMY	0.5219, 0.0000, 0.4195
CMYK	0.52, 0.00, 0.42, 0.00
HSL	132°, 100%, 74%
HSV	132°, 52%, 100%
XYZ	49.1244, 77.7957, 40.4544
YIQ	203.0350, -44.9210, -61.4730

# Conversions

## Conversions Part 2

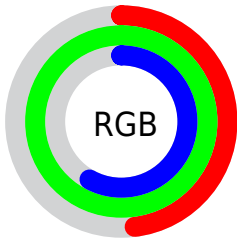
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">122, 233, 255</a>
Decimal	<a href="#">8060820</a>
CIELab	<a href="#">90.69, -58.60, 40.16</a>
CIELCh	<a href="#">91, 71.041, 145.574</a>
Yxy	<a href="#">77.7957, 0.2935, 0.4648</a>
Android (android.graphics.Color)	<a href="#">4286250900 (0xFF7AFF94)</a>
YUV	<a href="#">203.0350, -27.1323, -71.0677</a>
Hunter-Lab	<a href="#">88.2019, -54.9369, 34.5475</a>

# Details

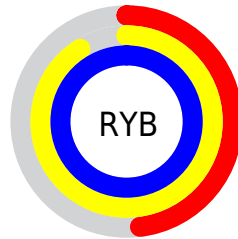
The Yxy color **77.7957, 0.2935, 0.4648** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **40.8107, 0.3428, 0.2245**, and the grayscale version is **59.9246, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.7769, 0.2976, 0.3878**, and **41.6469, 0.2854, 0.5002** is the 20% darker color. If you saturate the color by 10%, you get **75.5759, 0.2916, 0.4953**, and if you desaturate by 10%, it is **80.6088, 0.2963, 0.4344**.

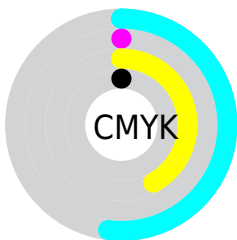
# Distribution



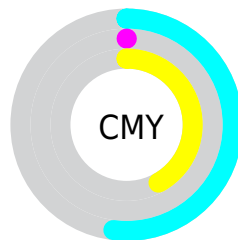
- Red (48%)
- Green (100%)
- Blue (58%)



- Red (48%)
- Yellow (91%)
- Blue (100%)



- Cyan (52%)
- Magenta (0%)
- Yellow (42%)
- Black (0%)




- Cyan (52%)
- Magenta (0%)
- Yellow (42%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.7957, 0.2935, 0.4648 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 77.7957, 0.2935, 0.4648 by changing the saturation by 10% instead.





 77.7957, 0.2935,  
0.4648

 77.7957, 0.2935,  
0.4648

487.4727, 0.3051,  
0.3980


 57.9062, 0.2901,  
0.4809


 130.2621, 0.2981,  
0.4409

 41.7332, 0.2855,  
0.5011


 163.6077, 0.2997,  
0.4318

 28.8925, 0.2790,  
0.5272


 202.2075, 0.3011,  
0.4241

 18.9995, 0.2695,  
0.5619

246.4459, 0.3022,  
0.4174

 11.6699, 0.2546,  
0.6097

296.7072, 0.3031,  
0.4116

 6.5193, 0.2294,  
0.6779


353.3758, 0.3039,


 3.1634, 0.1909,

0.4065

0.8091


416.8362, 0.3045,  
0.4020


 1.2176, 0.0000,  
1.0000


 0.0760, 0.0000,  
1.0000


 77.7957, 0.2935,  
0.4648


 77.7957, 0.2935,  
0.4648


 75.5759, 0.2916,  
0.4953


 80.6088, 0.2963,  
0.4344


 73.9188, 0.2909,  
0.5244


 84.0703, 0.2998,  
0.4055


 72.7680, 0.2916,  
0.5502

 88.2123, 0.3037,  
0.3787

 72.0617, 0.2934,  
0.5710

 93.0688, 0.3078,  
0.3547

 71.7505, 0.2953,  
0.5831

 98.6716, 0.3118,  
0.3333

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.



77.7957, 0.3726, 0.4822



77.7957, 0.2935, 0.4648



77.7957, 0.2239, 0.3891

# Triad

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



77.7957, 0.2935, 0.4648



77.7957, 0.1906, 0.2079



77.7957, 0.4631, 0.3294

# Complementary

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



77.7957, 0.2935, 0.4648



40.8107, 0.3428, 0.2245

# 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.



77.7957, 0.4002, 0.2740



77.7957, 0.2935, 0.4648



77.7957, 0.2392, 0.2073

# Square

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



77.7957, 0.2935, 0.4648



77.7957, 0.1713, 0.2370



77.7957, 0.3145, 0.2309



77.7957, 0.4761, 0.3896



# Rectangle

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



77.7957, 0.2935, 0.4648



77.7957, 0.1922, 0.3279



77.7957, 0.3145, 0.2309



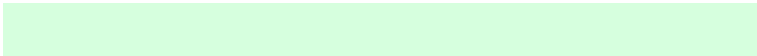
77.7957, 0.4468, 0.3101

# Sweetspot

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



77.7908, 0.2935, 0.4648



91.1311, 0.3062, 0.3635



89.8460, 0.3719, 0.4634



19.2914, 0.3054, 0.3685



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

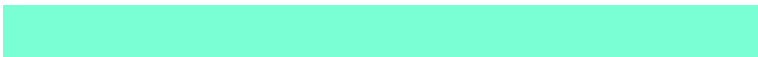
The Same Dimension uses a secret algorithm to generate beautiful new colors.



77.7908, 0.2935, 0.4648



75.4211, 0.2915, 0.4978



80.4487, 0.2635, 0.3801



20.2264, 0.3089, 0.3487



37.5076, 0.2947, 0.5809



3.6665, 0.2894, 0.5617



# Inverse Universe

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



40.8107, 0.3428, 0.2245



34.6816, 0.3510, 0.2076



37.8422, 0.4149, 0.2860



18.2357, 0.3168, 0.3101



13.4329, 0.3779, 0.1855

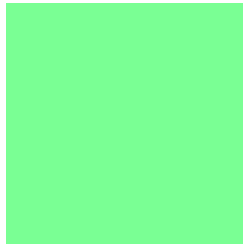


1.3228, 0.3702, 0.1813



# Previews

## White Background



This preview shows how the Yxy color 77.7957, 0.2935, 0.4648 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

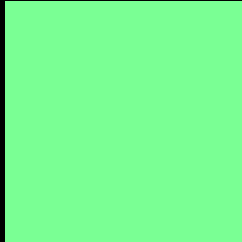
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.7957, 0.2935, 0.4648 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 77.7957, 0.2935, 0.4648**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.7957, 0.2935, 0.4648.



This preview shows how white text looks on a background with the Yxy color 77.7957, 0.2935, 0.4648.

# 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

77.7957, 0.2935, 0.4648

### Protanopia

76.7008, 0.3881, 0.4211

### Deuteranopia

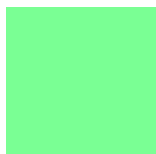
76.5608, 0.3615, 0.3639



## Tritanopia

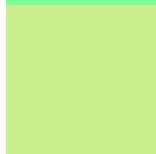
77.2778, 0.2619, 0.3111

# Trichromacy



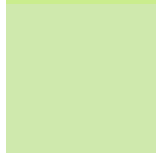
## Original Color

77.7957, 0.2935, 0.4648



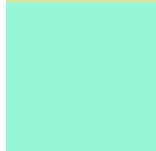
## Protanomaly

75.0480, 0.3476, 0.4388



## Deuteranomaly

74.5604, 0.3327, 0.3974



## Tritanomaly

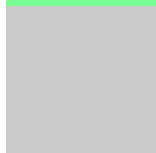
76.8420, 0.2735, 0.3635

# Monochromacy



## Original Color

77.7957, 0.2935, 0.4648



## Achromatopsia

59.7202, 0.3127, 0.3290



## Achromatomaly

64.6601, 0.3043, 0.3774

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.7957, 0.2935, 0.4648 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(122, 255, 148)` looks like.

```
.text, #text, p{  
    color:rgb(122, 255, 148)  
}
```

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(122, 255, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 255, 148) }
```

## Border

The CSS property to change the border of an element to Yxy 77.7957, 0.2935, 0.4648 is called "border". The border property can be set on classes, ids or directly on the HTML element.

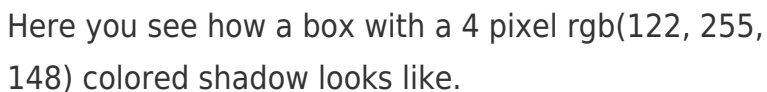
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(122, 255, 148) }
```

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

```
.border{ border-color:rgb(122, 255, 148) }
```

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



Here you see how a box with a 4 pixel rgb(122, 255, 148) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 255, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 255, 148);  
box-shadow:4px 4px 4px 4px rgb(122, 255,  
148) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.7957, 0.2935, 0.4648 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 255, 148) }
```

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

```
.background{ background-color: rgb(122,  
255, 148) }
```

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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