

# Converting Colors

$Y_{xy}(87.6172, 0.3076, 0.4732)$

Have a look what the booklet for  
Yxy(87.6172, 0.3076, 0.4732)  
contains.

<b>Yxy(79.8602, 0.3080, 0.4634)</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(79.8602, 0.3080, 0.4634)**

# Conversions

## Conversions Part 1

Format	Color
Hex	94FF91
RGB	148, 255, 145
RGB Percent	58%, 100%, 57%
CMY	0.4197, 0.0000, 0.4314
CMYK	0.42, 0.00, 0.43, 0.00
HSL	118°, 100%, 78%
HSV	118°, 43%, 100%
XYZ	53.0793, 79.8602, 39.3959
YIQ	210.4670, -28.4620, -56.8940

# Conversions

## Conversions Part 2

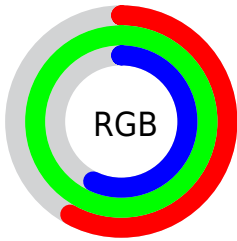
<b>Format</b>	<b>Color</b>
<b>RYB</b>	145, 255, 252
Decimal	9764753
CIELab	91.62, -52.14, 43.04
CIELCh	92, 67.609, 140.461
Yxy	79.8602, 0.3080, 0.4634
Android (android.graphics.Color)	4287954833 (0xFF94FF91)
YUV	210.4670, -32.2752, -54.7836
Hunter-Lab	89.3645, -50.3654, 36.4175

# Details

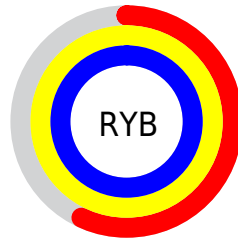
The Yxy color **79.8602, 0.3080, 0.4634** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **48.1604, 0.3151, 0.2222**, and the grayscale version is **64.9959, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.8119, 0.3136, 0.3887**, and **42.8789, 0.3036, 0.4985** is the 20% darker color. If you saturate the color by 10%, you get **77.0873, 0.3064, 0.4993**, and if you desaturate by 10%, it is **83.3002, 0.3094, 0.4278**.

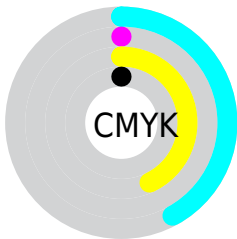
# Distribution



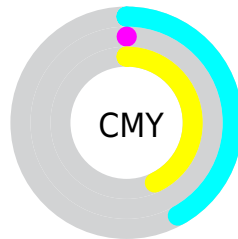
- Red (58%)
- Green (100%)
- Blue (57%)



- Red (57%)
- Yellow (100%)
- Blue (99%)



- Cyan (42%)
- Magenta (0%)
- Yellow (43%)
- Black (0%)




- Cyan (42%)
- Magenta (0%)
- Yellow (43%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 79.8602, 0.3080, 0.4634 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 79.8602, 0.3080, 0.4634 by changing the saturation by 10% instead.




 79.8602, 0.3080,  
0.4634


 79.8602, 0.3080,  
0.4634


494.4616, 0.3130,  
0.3980

 59.6033, 0.3061,  
0.4789


 133.1692, 0.3103,  
0.4402

 43.0990, 0.3033,  
0.4983


 166.9900, 0.3111,  
0.4313

 29.9628, 0.2991,  
0.5231


206.1010, 0.3116,  
0.4237

 19.8103, 0.2924,  
0.5557

250.8865, 0.3120,  
0.4172

 12.2573, 0.2812,  
0.5999

301.7309, 0.3124,  
0.4115

 6.9191, 0.2612,  
0.6620


359.0187, 0.3126,


 3.4116, 0.2289,


0.4064

0.7711

423.1341, 0.3128,  
0.4020

 1.3502, 0.0000,  
1.0000


 0.1796, 0.0000,  
1.0000


 79.8602, 0.3080,  
0.4634


 79.8602, 0.3080,  
0.4634


 77.0873, 0.3064,  
0.4993


 83.3002, 0.3094,  
0.4278


 74.9451, 0.3048,  
0.5331

 87.4546, 0.3106,  
0.3943

 73.3819, 0.3033,  
0.5618

 92.3580, 0.3116,  
0.3638

 72.3413, 0.3019,  
0.5831

 98.0445, 0.3125,  
0.3368

■ 71.7556, 0.3008,  
0.5955

100.0000, 0.3127,  
0.3290

■ 71.5649, 0.3004,  
0.5997

# Harmonies

## Analogous

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



79.8602, 0.3826, 0.4709



79.8602, 0.3080, 0.4634



79.8602, 0.2387, 0.4000

# Triad

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



79.8602, 0.3080, 0.4634



79.8602, 0.1913, 0.2165



79.8602, 0.4474, 0.3206

# Complementary

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



79.8602, 0.3080, 0.4634



48.1604, 0.3151, 0.2222

# 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.



79.8602, 0.3822, 0.2688



79.8602, 0.3080, 0.4634



79.8602, 0.2332, 0.2114

# Square

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



79.8602, 0.3080, 0.4634



79.8602, 0.1775, 0.2501



79.8602, 0.3012, 0.2302



79.8602, 0.4689, 0.3781



# Rectangle

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



79.8602, 0.3080, 0.4634



79.8602, 0.2049, 0.3428



79.8602, 0.3012, 0.2302



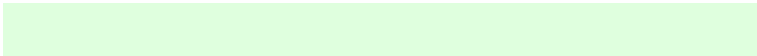
79.8602, 0.4295, 0.3024

# Sweetspot

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



79.8577, 0.3080, 0.4634



92.4348, 0.3117, 0.3634



92.5061, 0.3786, 0.4326



19.5385, 0.3115, 0.3698



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.



79.8577, 0.3080, 0.4634



77.3718, 0.3066, 0.4952



81.5382, 0.2814, 0.3995



20.1917, 0.3120, 0.3535



37.4044, 0.3006, 0.5996



3.6499, 0.3019, 0.5985



# Inverse Universe

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



48.1604, 0.3151, 0.2222



41.8183, 0.3154, 0.2029



45.8480, 0.3648, 0.2688



18.2736, 0.3134, 0.3056



14.2163, 0.3141, 0.1504

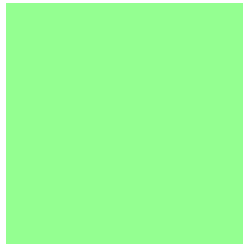


1.3918, 0.3149, 0.1509



# Previews

## White Background



This preview shows how the Yxy color 79.8602, 0.3080, 0.4634 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

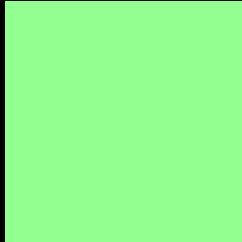
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 79.8602, 0.3080, 0.4634 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

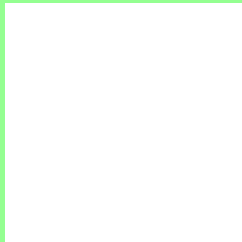
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 79.8602, 0.3080, 0.4634**

## **Background**



This preview shows how black text looks on a background with the Yxy color 79.8602, 0.3080, 0.4634.

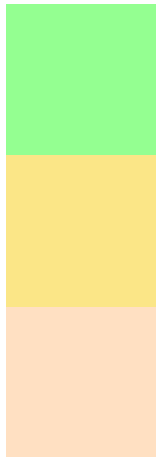


This preview shows how white text looks on a background with the Yxy color 79.8602, 0.3080, 0.4634.

# 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

79.8602, 0.3080, 0.4634

### Protanopia

78.8521, 0.3903, 0.4248

### Deuteranopia

78.4664, 0.3558, 0.3596



## Tritanopia

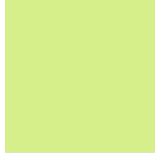
79.2673, 0.2709, 0.3115

# Trichromacy



## Original Color

79.8602, 0.3080, 0.4634



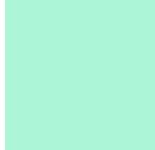
## Protanomaly

77.8932, 0.3568, 0.4394



## Deuteranomaly

77.1502, 0.3369, 0.3946



## Tritanomaly

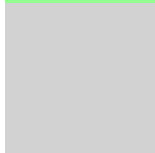
78.9818, 0.2852, 0.3637

# Monochromacy



## Original Color

79.8602, 0.3080, 0.4634



## Achromatopsia

64.4480, 0.3127, 0.3290



## Achromatomaly

68.5027, 0.3112, 0.3769

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 79.8602, 0.3080, 0.4634 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(148, 255, 145)` looks like.

```
.text, #text, p{  
    color:rgb(148, 255, 145)  
}
```

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(148, 255, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 255, 145) }
```

## Border

The CSS property to change the border of an element to Yxy 79.8602, 0.3080, 0.4634 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(148, 255, 145) }
```

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

```
.border{ border-color:rgb(148, 255, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 255, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 255, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 255, 145);  
box-shadow:4px 4px 4px 4px rgb(148, 255,  
145) }
```



# Background

The CSS property to change the background color of an element to Yxy 79.8602, 0.3080, 0.4634 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 255, 145) }
```

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

```
.background{ background-color: rgb(148,  
255, 145) }
```

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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