

# Converting Colors

$Y_{xy}(100.0000, 0.3245, 0.5098)$

Have a look what the booklet for  
Yxy(100.0000, 0.3245, 0.5098)  
contains.

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# Color

**Yxy(80.4623, 0.3291, 0.4921)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A2FF74
RGB	162, 255, 116
RGB Percent	64%, 100%, 45%
CMY	0.3648, 0.0000, 0.5449
CMYK	0.36, 0.00, 0.54, 0.00
HSL	100°, 100%, 73%
HSV	100°, 54%, 100%
XYZ	53.8105, 80.4623, 29.2352
YIQ	211.3470, -10.8090, -62.9450

# Conversions

## Conversions Part 2

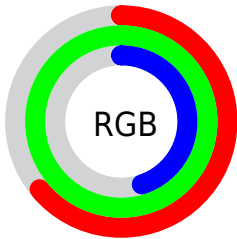
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">116, 255, 209</a>
Decimal	<a href="#">10682228</a>
<a href="#">CIELab</a>	<a href="#">91.89, -51.42, 56.99</a>
<a href="#">CIElCh</a>	<a href="#">92, 76.762, 132.057</a>
<a href="#">Yxy</a>	<a href="#">80.4623, 0.3291, 0.4921</a>
Android (android.graphics.Color)	<a href="#">4288872308</a> ( <a href="#">0xFFA2FF74</a> )
<a href="#">YUV</a>	<a href="#">211.3470, -47.0061, -43.2773</a>
<a href="#">Hunter-Lab</a>	<a href="#">89.7008, -49.8962, 43.4668</a>

# Details

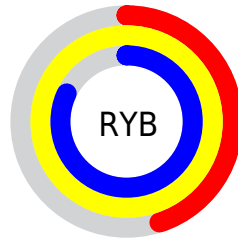
The Yxy color **80.4623, 0.3291, 0.4921** is a light color, and the websafe version is hex **99FF66**. A complement of this color would be **33.2939, 0.2777, 0.1826**, and the grayscale version is **65.7028, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.8324, 0.3395, 0.4182**, and **43.6790, 0.3264, 0.5325** is the 20% darker color. If you saturate the color by 10%, you get **78.2779, 0.3289, 0.5223**, and if you desaturate by 10%, it is **83.0486, 0.3279, 0.4599**.

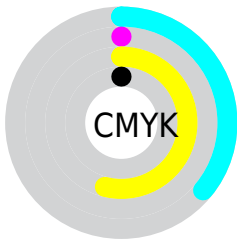
# Distribution



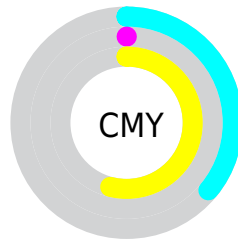
- Red (64%)
- Green (100%)
- Blue (45%)



- Red (45%)
- Yellow (100%)
- Blue (82%)



- Cyan (36%)
- Magenta (0%)
- Yellow (54%)
- Black (0%)




- Cyan (36%)
- Magenta (0%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.4623, 0.3291, 0.4921 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 80.4623, 0.3291, 0.4921 by changing the saturation by 10% instead.





 80.4623, 0.3291,  
0.4921

 80.4623, 0.3291,  
0.4921


496.4895, 0.3262,  
0.4136


 60.0989, 0.3284,  
0.5102


 134.0155, 0.3292,  
0.4646

 43.4983, 0.3267,  
0.5325


 167.9741, 0.3289,  
0.4539

 30.2763, 0.3234,  
0.5603


 207.2331, 0.3285,  
0.4448

 20.0484, 0.3170,  
0.5954

252.1770, 0.3280,  
0.4369

 12.4302, 0.3046,  
0.6404

303.1902, 0.3276,  
0.4299

 7.0374, 0.2870,  
0.7130


360.6571, 0.3271,


 3.4855, 0.2341,


0.4238

0.7659

424.9620, 0.3266,  
0.4184


 1.3901, 0.0000,  
1.0000

 0.2094, 0.0000,  
1.0000


 80.4623, 0.3291,  
0.4921


 80.4623, 0.3291,  
0.4921


 78.2779, 0.3289,  
0.5223


 83.0486, 0.3279,  
0.4599


 76.4775, 0.3270,  
0.5485


 86.0638, 0.3255,  
0.4274

 75.0332, 0.3234,  
0.5689

 89.5255, 0.3223,  
0.3961

 73.9141, 0.3186,  
0.5825

 93.4523, 0.3185,  
0.3669

 73.4166, 0.3156,  
0.5876

 97.8612, 0.3145,  
0.3401

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.



80.4623, 0.4100, 0.4793



80.4623, 0.3291, 0.4921



80.4623, 0.2482, 0.4360

# Triad

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



80.4623, 0.3291, 0.4921



80.4623, 0.1710, 0.2104



80.4623, 0.4485, 0.3012

# Complementary

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



80.4623, 0.3291, 0.4921



33.2939, 0.2777, 0.1826

# 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.



80.4623, 0.3652, 0.2481



80.4623, 0.3291, 0.4921



80.4623, 0.2078, 0.1975

# Square

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



80.4623, 0.3291, 0.4921



80.4623, 0.1644, 0.2560



80.4623, 0.2753, 0.2114



80.4623, 0.4877, 0.3627



# Rectangle

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



80.4623, 0.3291, 0.4921



80.4623, 0.2056, 0.3716



80.4623, 0.2753, 0.2114



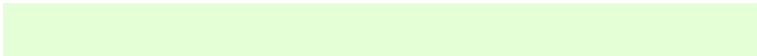
80.4623, 0.4240, 0.2822

# Sweetspot

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



80.4604, 0.3291, 0.4921



92.8271, 0.3191, 0.3711



67.9700, 0.4163, 0.4216



19.6907, 0.3199, 0.3771



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.



80.4604, 0.3291, 0.4921



78.1761, 0.3288, 0.5237



77.1077, 0.2948, 0.4770



20.4596, 0.3166, 0.3532



38.4338, 0.3167, 0.5867



3.7988, 0.3252, 0.5800



# Inverse Universe

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



33.2939, 0.2777, 0.1826



26.7181, 0.2684, 0.1575



39.5823, 0.3405, 0.2172



17.9821, 0.3085, 0.3052



8.3664, 0.2389, 0.1089

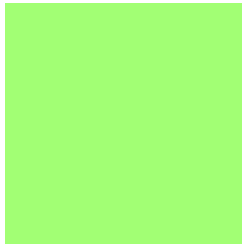


0.8742, 0.2483, 0.1142



# Previews

## White Background



This preview shows how the Yxy color 80.4623, 0.3291, 0.4921 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

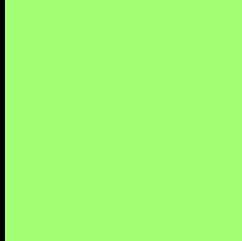
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.4623, 0.3291, 0.4921 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

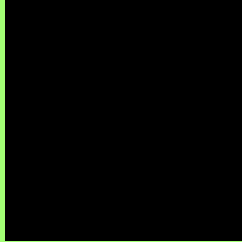
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 80.4623, 0.3291, 0.4921**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.4623, 0.3291, 0.4921.



This preview shows how white text looks on a background with the Yxy color 80.4623, 0.3291, 0.4921.

# 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

80.4623, 0.3291, 0.4921

### Protanopia

79.5817, 0.4060, 0.4441

### Deuteranopia

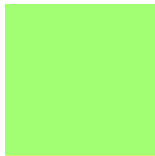
79.4585, 0.3567, 0.3636



## Tritanopia

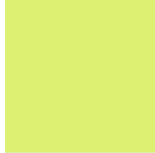
79.7065, 0.2752, 0.3106

# Trichromacy



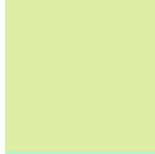
## Original Color

80.4623, 0.3291, 0.4921



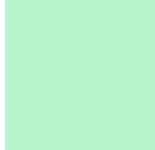
## Protanomaly

78.8846, 0.3755, 0.4631



## Deuteranomaly

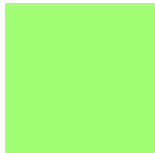
78.6209, 0.3476, 0.4091



## Tritanomaly

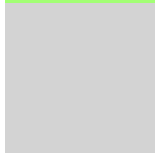
79.0061, 0.2969, 0.3751

# Monochromacy



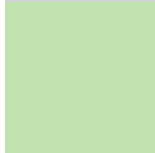
## Original Color

80.4623, 0.3291, 0.4921



## Achromatopsia

65.1406, 0.3127, 0.3290



## Achromatomaly

69.4102, 0.3216, 0.3896

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.4623, 0.3291, 0.4921 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(162, 255, 116)` looks like.

```
.text, #text, p{  
    color:rgb(162, 255, 116)  
}
```

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(162, 255, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 255, 116) }
```

## Border

The CSS property to change the border of an element to Yxy 80.4623, 0.3291, 0.4921 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(162, 255, 116) }
```

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

```
.border{ border-color:rgb(162, 255, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 255, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 255, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 255, 116);  
box-shadow:4px 4px 4px 4px rgb(162, 255,  
116) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.4623, 0.3291, 0.4921 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 255, 116) }
```

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

```
.background{ background-color: rgb(162,  
255, 116) }
```

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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