

# Converting Colors

$Y_{xy}(102.6990, 0.2939, 0.4449)$

Have a look what the booklet for  
Yxy(102.6990, 0.2939, 0.4449)  
contains.

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# Color

**Yxy(81.6697, 0.2925, 0.4167)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99FFB6
RGB	153, 255, 182
RGB Percent	60%, 100%, 71%
CMY	0.4003, 0.0000, 0.2863
CMYK	0.40, 0.00, 0.29, 0.00
HSL	137°, 100%, 80%
HSV	137°, 40%, 100%
XYZ	57.3275, 81.6697, 56.9944
YIQ	216.1800, -37.3590, -44.3270

# Conversions

## Conversions Part 2

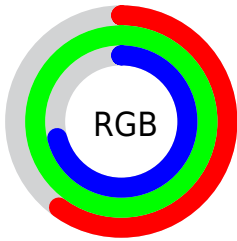
<b>Format</b>	<b>Color</b>
<b>RYB</b>	153, 232, 255
Decimal	10092470
CIELab	92.43, -44.91, 25.76
CIElCh	92, 51.777, 150.161
Yxy	81.6697, 0.2925, 0.4167
Android (android.graphics.Color)	4288282550 (0xFF99FFB6)
YUV	216.1800, -16.8507, -55.4089
Hunter-Lab	90.3713, -44.9173, 25.8675

# Details

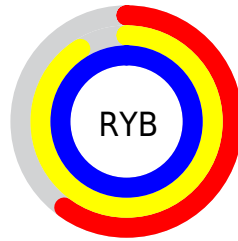
The Yxy color **81.6697, 0.2925, 0.4167** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **49.5011, 0.3423, 0.2554**, and the grayscale version is **68.9151, 0.3127, 0.3290**.

A 20% lighter version of the original color is **91.5419, 0.2956, 0.3467**, and **44.4599, 0.2862, 0.4391** is the 20% darker color. If you saturate the color by 10%, you get **78.7356, 0.2888, 0.4436**, and if you desaturate by 10%, it is **85.2150, 0.2970, 0.3914**.

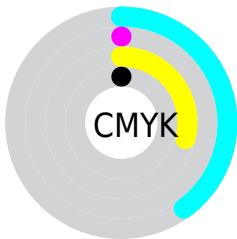
# Distribution



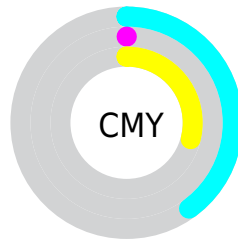
- Red (60%)
- Green (100%)
- Blue (71%)



- Red (60%)
- Yellow (91%)
- Blue (100%)



- Cyan (40%)
- Magenta (0%)
- Yellow (29%)
- Black (0%)




- Cyan (40%)
- Magenta (0%)
- Yellow (29%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.6697, 0.2925, 0.4167 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 81.6697, 0.2925, 0.4167 by changing the saturation by 10% instead.





 81.6697, 0.2925,  
0.4167

 81.6697, 0.2925,  
0.4167


500.5422, 0.3029,  
0.3746

 61.0933, 0.2899,  
0.4266


 135.7107, 0.2963,  
0.4018

 44.3005, 0.2865,  
0.4391

 169.9441, 0.2977,  
0.3961

 30.9068, 0.2821,  
0.4551


209.4987, 0.2989,  
0.3912

 20.5279, 0.2759,  
0.4764

254.7587, 0.2999,  
0.3870

 12.7793, 0.2668,  
0.5060

306.1087, 0.3008,  
0.3833

 7.2768, 0.2525,  
0.5496


363.9330, 0.3016,


 3.6358, 0.2277,

0.3801

0.6187

428.6161, 0.3023,  
0.3772


 1.4720, 0.1256,  
0.8744


 0.2689, 0.0000,  
1.0000


 81.6697, 0.2925,  
0.4167


 81.6697, 0.2925,  
0.4167


 78.7356, 0.2888,  
0.4436


 85.2150, 0.2970,  
0.3914

 76.4003, 0.2862,  
0.4714

 89.4317, 0.3021,  
0.3683

 74.6133, 0.2850,  
0.4989

 94.3434, 0.3074,  
0.3475

 73.3268, 0.2854,  
0.5247

99.9799, 0.3127,  
0.3291

■ 72.4841, 0.2874,  
0.5476

100.0000, 0.3127,  
0.3290

■ 71.9963, 0.2906,  
0.5663

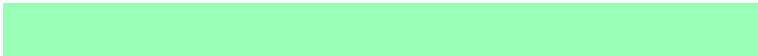
# Harmonies

## Analogous

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



81.6697, 0.3512, 0.4387



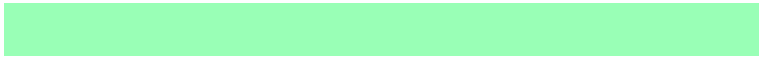
81.6697, 0.2925, 0.4167



81.6697, 0.2422, 0.3624

# Triad

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



81.6697, 0.2925, 0.4167



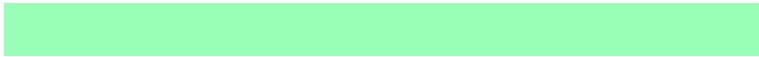
81.6697, 0.2255, 0.2370



81.6697, 0.4246, 0.3395

# Complementary

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



81.6697, 0.2925, 0.4167



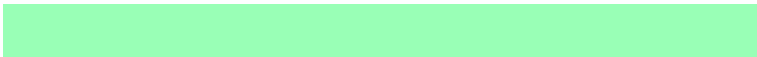
49.5011, 0.3423, 0.2554

# 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.



81.6697, 0.3844, 0.2951



81.6697, 0.2925, 0.4167



81.6697, 0.2668, 0.2386

# Square

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



81.6697, 0.2925, 0.4167



81.6697, 0.2067, 0.2578



81.6697, 0.3246, 0.2594

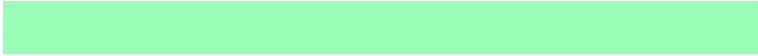


81.6697, 0.4304, 0.3855



# Rectangle

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



81.6697, 0.2925, 0.4167



81.6697, 0.2195, 0.3210



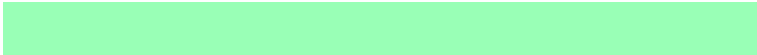
81.6697, 0.3246, 0.2594



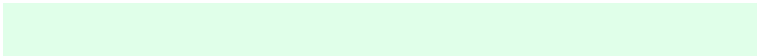
81.6697, 0.4146, 0.3242

# Sweetspot

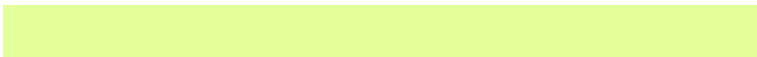
The Sweet Spot groups the original color and five complimentary colors.



81.6612, 0.2925, 0.4167



93.3212, 0.3063, 0.3514



89.9981, 0.3529, 0.4358



19.8325, 0.3056, 0.3540



0.0000, 0.0000, 0.0000

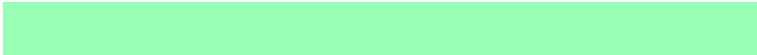


21.4041, 0.3127, 0.3290



# Same Dimension

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



81.6612, 0.2925, 0.4167



79.2814, 0.2894, 0.4380



84.1604, 0.2675, 0.3542



20.2532, 0.3076, 0.3465



37.6416, 0.2899, 0.5635



3.6829, 0.2838, 0.5415



# Inverse Universe

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



49.5011, 0.3423, 0.2554



43.1001, 0.3503, 0.2415



47.1110, 0.3920, 0.3060



18.2069, 0.3182, 0.3122



12.9083, 0.4092, 0.2028

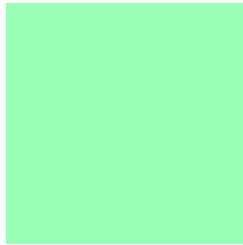


1.2757, 0.3967, 0.1959



# Previews

## White Background



This preview shows how the Yxy color 81.6697, 0.2925, 0.4167 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 81.6697, 0.2925, 0.4167 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

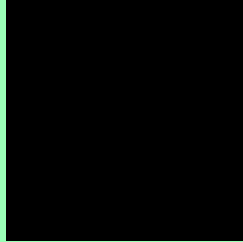
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 81.6697, 0.2925, 0.4167**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.6697, 0.2925, 0.4167.

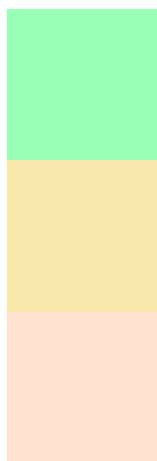


This preview shows how white text looks on a background with the Yxy color 81.6697, 0.2925, 0.4167.

# 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

81.6697, 0.2925, 0.4167

### Protanopia

80.8315, 0.3644, 0.3908

### Deuteranopia

80.7522, 0.3454, 0.3482



## Tritanopia

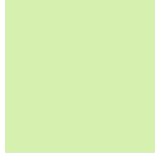
81.3371, 0.2749, 0.3139

# Trichromacy



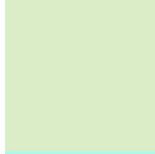
## Original Color

81.6697, 0.2925, 0.4167



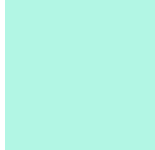
## Protanomaly

79.7509, 0.3346, 0.3999



## Deuteranomaly

79.5973, 0.3235, 0.3705



## Tritanomaly

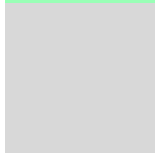
80.9779, 0.2817, 0.3492

# Monochromacy



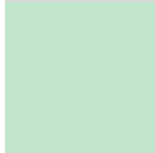
## Original Color

81.6697, 0.2925, 0.4167



## Achromatopsia

68.6685, 0.3127, 0.3290



## Achromatomaly

72.2907, 0.3039, 0.3591

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.6697, 0.2925, 0.4167 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(153, 255, 182)` looks like.

```
.text, #text, p{  
    color:rgb(153, 255, 182)  
}
```

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(153, 255, 182) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 255, 182) }
```

## Border

The CSS property to change the border of an element to Yxy 81.6697, 0.2925, 0.4167 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(153, 255, 182) }
```

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

```
.border{ border-color:rgb(153, 255, 182) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 255, 182)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 255, 182); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 255, 182);  
box-shadow:4px 4px 4px 4px rgb(153, 255,  
182) }
```



# Background

The CSS property to change the background color of an element to Yxy 81.6697, 0.2925, 0.4167 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 255, 182) }
```

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

```
.background{ background-color: rgb(153,  
255, 182) }
```

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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