

# Converting Colors

$Y_{xy}(69.1445, 0.2935, 0.4780)$

Have a look what the booklet for  
Yxy(69.1445, 0.2935, 0.4780)  
contains.

<b>Yxy(68.8929, 0.2935, 0.4782)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(68.8929, 0.2935, 0.4782)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6BF384
RGB	107, 243, 132
RGB Percent	42%, 95%, 52%
CMY	0.5801, 0.0471, 0.4824
CMYK	0.56, 0.00, 0.46, 0.05
HSL	131°, 85%, 69%
HSV	131°, 56%, 95%
XYZ	42.2837, 68.8929, 32.8905
YIQ	189.6820, -45.4250, -63.3530

# Conversions

## Conversions Part 2

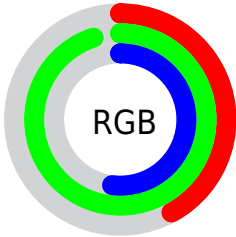
Format	Color
<a href="#">RYB</a>	<a href="#">107, 222, 243</a>
Decimal	<a href="#">7074692</a>
CIELab	<a href="#">86.45, -59.91, 42.45</a>
CIELCh	<a href="#">86, 73.419, 144.681</a>
Yxy	<a href="#">68.8929, 0.2935, 0.4782</a>
Android (android.graphics.Color)	<a href="#">4285264772 (0xFF6BF384)</a>
YUV	<a href="#">189.6820, -28.4372, -72.5121</a>
Hunter-Lab	<a href="#">83.0017, -54.3195, 34.6068</a>

# Details

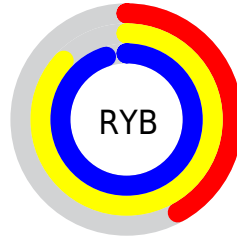
The Yxy color **68.8929, 0.2935, 0.4782** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **34.6510, 0.3437, 0.2169**, and the grayscale version is **51.4965, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.4327, 0.2981, 0.4085**, and **36.0371, 0.2841, 0.5207** is the 20% darker color. If you saturate the color by 10%, you get **67.1016, 0.2921, 0.5087**, and if you desaturate by 10%, it is **71.2164, 0.2959, 0.4473**.

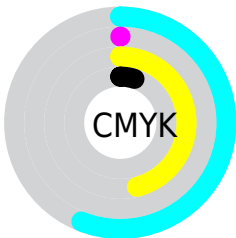
# Distribution



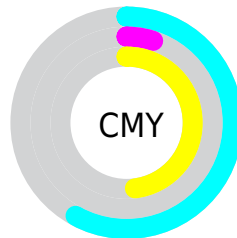
- Red (42%)
- Green (95%)
- Blue (52%)



- Red (42%)
- Yellow (87%)
- Blue (95%)



- Cyan (56%)
- Magenta (0%)
- Yellow (46%)
- Black (5%)




- Cyan (58%)
- Magenta (5%)
- Yellow (48%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.8929, 0.2935, 0.4782 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 68.8929, 0.2935, 0.4782 by changing the saturation by 10% instead.




 68.8929, 0.2935,  
0.4782

 68.8929, 0.2935,  
0.4782


456.6531, 0.3059,  
0.4030


 50.6245, 0.2896,  
0.4967


 117.6286, 0.2986,  
0.4510

 35.9099, 0.2842,  
0.5203


 148.8647, 0.3004,  
0.4407

 24.3646, 0.2764,  
0.5510


 185.1921, 0.3018,  
0.4320

 15.6043, 0.2645,  
0.5922

226.9952, 0.3029,  
0.4245

 9.2446, 0.2451,  
0.6493

274.6585, 0.3039,  
0.4181

 4.9011, 0.2168,  
0.7495

328.5663, 0.3047,

 2.1893, 0.1093,

0.4124

0.8907

389.1031, 0.3053,  
0.4075

0.7142, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

68.8929, 0.2935,  
0.4782

68.8929, 0.2935,  
0.4782

67.1016, 0.2921,  
0.5087

71.2164, 0.2959,  
0.4473

65.7916, 0.2918,  
0.5368


74.1013, 0.2991,  
0.4173

64.9168, 0.2928,  
0.5608

77.5844, 0.3027,  
0.3893

64.4172, 0.2949,  
0.5790

81.6973, 0.3065,  
0.3638

 64.2861, 0.2958,  
0.5848

 86.4691, 0.3104,  
0.3412

 91.9271, 0.3143,  
0.3212

 92.5802, 0.3133,  
0.3175

# Harmonies

## Analogous

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



68.8929, 0.3776, 0.4930



68.8929, 0.2935, 0.4782



68.8929, 0.2192, 0.3968

# Triad

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



68.8929, 0.2935, 0.4782



68.8929, 0.1820, 0.2006



68.8929, 0.4731, 0.3264

# Complementary

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



68.8929, 0.2935, 0.4782



34.6510, 0.3437, 0.2169

# 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.



68.8929, 0.4041, 0.2685



68.8929, 0.2935, 0.4782



68.8929, 0.2321, 0.1996

# Square

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



68.8929, 0.2935, 0.4782



68.8929, 0.1626, 0.2317



68.8929, 0.3115, 0.2237



68.8929, 0.4878, 0.3897



# Rectangle

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



68.8929, 0.2935, 0.4782



68.8929, 0.1852, 0.3298



68.8929, 0.3115, 0.2237



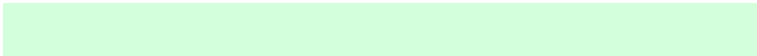
68.8929, 0.4552, 0.3061

# Sweetspot

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



68.8958, 0.2935, 0.4782



90.6109, 0.3061, 0.3665



80.4326, 0.3766, 0.4709



19.1877, 0.3053, 0.3715



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.



68.8958, 0.2935, 0.4782



74.6602, 0.2920, 0.5123



71.2932, 0.2623, 0.3874



18.5216, 0.3091, 0.3489



35.2972, 0.2952, 0.5827



3.1157, 0.2894, 0.5617



# Inverse Universe

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



34.6510, 0.3437, 0.2169



32.9890, 0.3517, 0.2006



31.8639, 0.4231, 0.2813



16.7131, 0.3166, 0.3099



12.7261, 0.3735, 0.1831

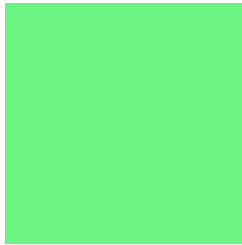


1.1317, 0.3657, 0.1788



# Previews

## White Background



This preview shows how the Yxy color 68.8929, 0.2935, 0.4782 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 68.8929, 0.2935, 0.4782 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

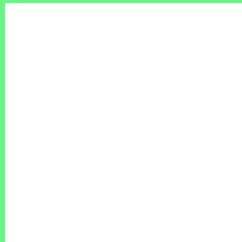
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 68.8929, 0.2935, 0.4782**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.8929, 0.2935, 0.4782.

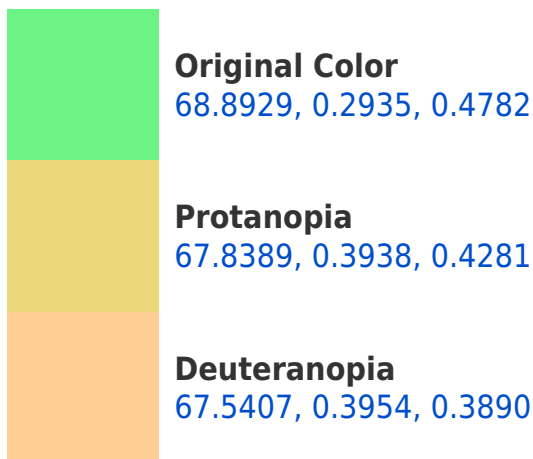


This preview shows how white text looks on a background with the Yxy color 68.8929, 0.2935, 0.4782.

# 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

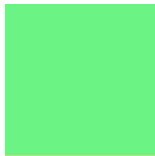




## Tritanopia

68.6052, 0.2483, 0.3075

# Trichromacy



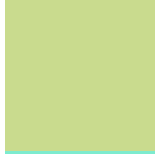
## Original Color

68.8929, 0.2935, 0.4782



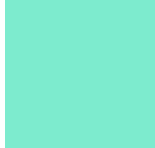
## Protanomaly

66.1756, 0.3500, 0.4482



## Deuteranomaly

65.0335, 0.3512, 0.4206



## Tritanomaly

68.2329, 0.2644, 0.3659

# Monochromacy



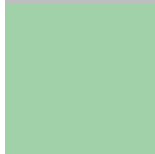
## Original Color

68.8929, 0.2935, 0.4782



## Achromatopsia

51.4918, 0.3127, 0.3290



## Achromatomaly

55.9391, 0.3037, 0.3821

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.8929, 0.2935, 0.4782 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(107, 243, 132)` looks like.

```
.text, #text, p{  
    color:rgb(107, 243, 132)  
}
```

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(107, 243, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 243, 132) }
```

## Border

The CSS property to change the border of an element to Yxy 68.8929, 0.2935, 0.4782 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(107, 243, 132) }
```

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

```
.border{ border-color:rgb(107, 243, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 243, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 243, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 243, 132);  
box-shadow:4px 4px 4px 4px rgb(107, 243,  
132) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.8929, 0.2935, 0.4782 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 243, 132) }
```

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

```
.background{ background-color: rgb(107,  
243, 132) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor