

# Converting Colors

$Y_{xy}(68.9080, 0.3003, 0.5549)$

Have a look what the booklet for  
Yxy(68.9080, 0.3003, 0.5549)  
contains.

<b>Yxy(68.9080, 0.3003, 0.5549)</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(68.9080, 0.3003, 0.5549)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45F84B
RGB	69, 248, 75
RGB Percent	27%, 97%, 29%
CMY	0.7293, 0.0274, 0.7061
CMYK	0.72, 0.00, 0.70, 0.03
HSL	122°, 93%, 62%
HSV	122°, 72%, 97%
XYZ	37.2915, 68.9080, 17.9814
YIQ	174.7570, -51.1510, -91.7510

# Conversions

## Conversions Part 2

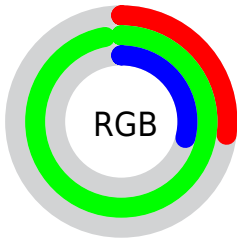
Format	Color
<a href="#">RYB</a>	<a href="#">69, 242, 248</a>
Decimal	<a href="#">4585547</a>
CIELab	<a href="#">86.46, -75.59, 66.92</a>
CIELCh	<a href="#">86, 100.961, 138.480</a>
Yxy	<a href="#">68.9080, 0.3003, 0.5549</a>
Android (android.graphics.Color)	<a href="#">4282775627 (0xFF45F84B)</a>
YUV	<a href="#">174.7570, -49.1802, -92.7489</a>
Hunter-Lab	<a href="#">83.0108, -65.0802, 45.2645</a>

# Details

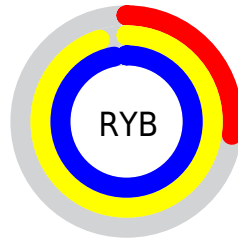
The Yxy color **68.9080, 0.3003, 0.5549** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **30.6328, 0.3260, 0.1755**, and the grayscale version is **43.0191, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.8487, 0.3102, 0.4804**, and **36.8269, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **67.9166, 0.2997, 0.5780**, and if you desaturate by 10%, it is **70.4075, 0.3015, 0.5252**.

# Distribution



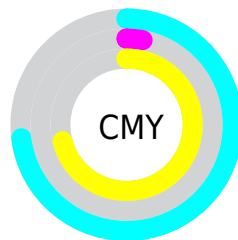
- Red (27%)
- Green (97%)
- Blue (29%)



- Red (27%)
- Yellow (95%)
- Blue (97%)



- Cyan (72%)
- Magenta (0%)
- Yellow (70%)
- Black (3%)




- Cyan (73%)
- Magenta (3%)
- Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.9080, 0.3003, 0.5549 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 68.9080, 0.3003, 0.5549 by changing the saturation by 10% instead.




 68.9080, 0.3003,  
0.5549


 68.9080, 0.3003,  
0.5549


456.7064, 0.3147,  
0.4410

 50.6368, 0.2943,  
0.5820


 117.6502, 0.3074,  
0.5142

 35.9196, 0.2854,  
0.6153

 148.8899, 0.3095,  
0.4986


 24.3721, 0.2718,  
0.6567


 185.2213, 0.3111,  
0.4854

 15.6099, 0.2503,  
0.7079

 227.0287, 0.3122,  
0.4740

 9.2485, 0.2190,  
0.7810

 274.6965, 0.3131,  
0.4641

 4.9036, 0.1612,  
0.8388


328.6091, 0.3138,

 2.1908, 0.0000,


0.4554


1.0000


389.1510, 0.3143,  
0.4478


 0.7150, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000

 68.9080, 0.3003,  
0.5549


 68.9080, 0.3003,  
0.5549


 67.9166, 0.2997,  
0.5780

 70.4075, 0.3015,  
0.5252


 67.3592, 0.2996,  
0.5927

 72.4609, 0.3030,  
0.4913


 67.1553, 0.2996,  
0.5986


 75.1185, 0.3049,  
0.4559

 78.4227, 0.3068,  
0.4214

 82.4121, 0.3088,  
0.3891

 87.1222, 0.3106,  
0.3599

 92.5860, 0.3124,  
0.3341

 95.6173, 0.3130,  
0.3223

# Harmonies

## Analogous

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



68.9080, 0.4071, 0.5368



68.9080, 0.3003, 0.5549



68.9080, 0.2018, 0.4543

# Triad

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



68.9080, 0.3003, 0.5549



68.9080, 0.1386, 0.1678



68.9080, 0.5173, 0.3021

# Complementary

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



68.9080, 0.3003, 0.5549



30.6328, 0.3260, 0.1755

# 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.



68.9080, 0.4102, 0.2354



68.9080, 0.3003, 0.5549



68.9080, 0.1902, 0.1622

# Square

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



68.9080, 0.3003, 0.5549



68.9080, 0.1222, 0.2105



68.9080, 0.2837, 0.1858



68.9080, 0.5466, 0.3766



# Rectangle

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



68.9080, 0.3003, 0.5549



68.9080, 0.1557, 0.3535



68.9080, 0.2837, 0.1858



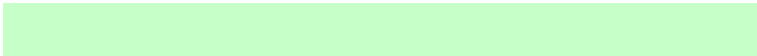
68.9080, 0.4883, 0.2787

# Sweetspot

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



68.9109, 0.3003, 0.5549



87.8540, 0.3088, 0.3887



86.9836, 0.4064, 0.4889



18.5408, 0.3083, 0.3971



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.



68.9109, 0.3003, 0.5549



72.0024, 0.2995, 0.5864



70.9944, 0.2675, 0.4468



19.3185, 0.3111, 0.3527



36.2799, 0.2994, 0.5980



3.3633, 0.2980, 0.5930



# Inverse Universe

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



30.6328, 0.3260, 0.1755



29.1124, 0.3281, 0.1628



26.6015, 0.4361, 0.2479



17.5141, 0.3143, 0.3064



14.1769, 0.3294, 0.1588

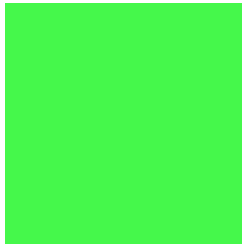


1.3161, 0.3283, 0.1582



# Previews

## White Background



This preview shows how the Yxy color 68.9080, 0.3003, 0.5549 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 68.9080, 0.3003, 0.5549 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

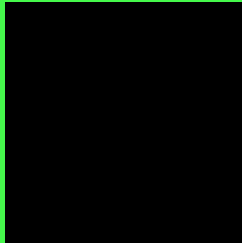
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 68.9080, 0.3003, 0.5549**

## Background



This preview shows how black text looks on a background with the Yxy color 68.9080, 0.3003, 0.5549.

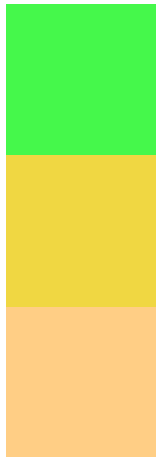


This preview shows how white text looks on a background with the Yxy color 68.9080, 0.3003, 0.5549.

# 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

68.9080, 0.3003, 0.5549

### Protanopia

67.5195, 0.4260, 0.4699

### Deuteranopia

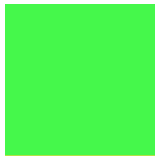
67.0961, 0.4064, 0.4037



## Tritanopia

68.5373, 0.2408, 0.3072

# Trichromacy



## Original Color

68.9080, 0.3003, 0.5549



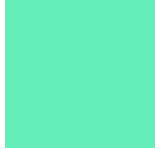
## Protanomaly

64.8328, 0.3681, 0.5089



## Deuteranomaly

63.4476, 0.3578, 0.4608



## Tritanomaly

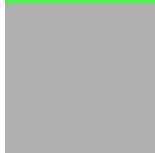
67.4609, 0.2645, 0.3983

# Monochromacy



## Original Color

68.9080, 0.3003, 0.5549



## Achromatopsia

42.8690, 0.3127, 0.3290



## Achromatomaly

49.3394, 0.3063, 0.4205

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.9080, 0.3003, 0.5549 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(69, 248, 75)` looks like.

```
.text, #text, p{  
    color:rgb(69, 248, 75)  
}
```

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(69, 248, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 248, 75) }
```

## Border

The CSS property to change the border of an element to Yxy 68.9080, 0.3003, 0.5549 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(69, 248, 75) }
```

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

```
.border{ border-color:rgb(69, 248, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 248, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 248, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 248, 75);  
box-shadow:4px 4px 4px 4px rgb(69, 248,  
75) }
```



# Background

The CSS property to change the background color of an element to Yxy 68.9080, 0.3003, 0.5549 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 248, 75) }
```

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

```
.background{ background-color: rgb(69, 248,  
75) }
```

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