

# Converting Colors

$Y_{xy}(51.3071, 0.3014, 0.5463)$

Have a look what the booklet for  
Yxy(51.3071, 0.3014, 0.5463)  
contains.

<b>Yxy(51.3096, 0.3014, 0.5458)</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(51.3096, 0.3014, 0.5458)**

# Conversions

## Conversions Part 1

Format	Color
Hex	44D947
RGB	68, 217, 71
RGB Percent	27%, 85%, 28%
CMY	0.7333, 0.1490, 0.7217
CMYK	0.69, 0.00, 0.67, 0.15
HSL	121°, 66%, 56%
HSV	121°, 69%, 85%
XYZ	28.3340, 51.3096, 14.3644
YIQ	155.8050, -41.9380, -76.9940

# Conversions

## Conversions Part 2

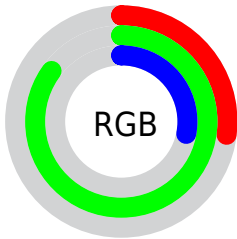
<b>Format</b>	<b>Color</b>
<b>RYB</b>	68, 214, 217
Decimal	4512071
CIELab	76.87, -66.27, 58.30
CIELCh	77, 88.268, 138.663
Yxy	51.3096, 0.3014, 0.5458
Android (android.graphics.Color)	4282702151 (0xFF44D947)
YUV	155.8050, -41.8089, -77.0050
Hunter-Lab	71.6307, -54.7468, 38.2518

# Details

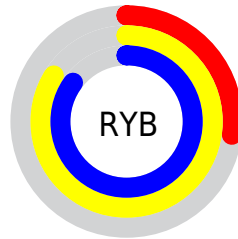
The Yxy color **51.3096, 0.3014, 0.5458** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **23.7472, 0.3231, 0.1791**, and the grayscale version is **33.3599, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.1773, 0.3097, 0.4889**, and **25.4897, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **50.4435, 0.3004, 0.5713**, and if you desaturate by 10%, it is **52.5641, 0.3028, 0.5143**.

# Distribution



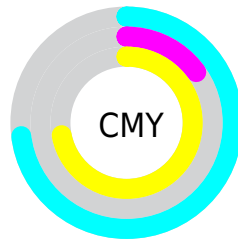
- Red (27%)
- Green (85%)
- Blue (28%)



- Red (27%)
- Yellow (84%)
- Blue (85%)



- Cyan (69%)
- Magenta (0%)
- Yellow (67%)
- Black (15%)




- Cyan (73%)
- Magenta (15%)
- Yellow (72%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.3096, 0.3014, 0.5458 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 51.3096, 0.3014, 0.5458 by changing the saturation by 10% instead.





 51.3096, 0.3014,  
0.5458

 51.3096, 0.3014,  
0.5458


391.7655, 0.3148,  
0.4310


 36.4551, 0.2952,  
0.5749


 92.1122, 0.3083,  
0.5034


 24.7859, 0.2856,  
0.6118


 118.8291, 0.3103,  
0.4876


 15.9176, 0.2701,  
0.6591


 150.2690, 0.3117,  
0.4743

 9.4658, 0.2460,  
0.7258

 186.8161, 0.3127,  
0.4630

 5.0463, 0.2004,  
0.7996

 228.8549, 0.3135,  
0.4533

 2.2744, 0.0645,  
0.9355

276.7698, 0.3141,

 0.7601, 0.0000,

0.4449

1.0000

330.9452, 0.3145,  
0.4376

■ 0.0000, 0.0000,  
0.0000

■ 51.3096, 0.3014,  
0.5458

■ 51.3096, 0.3014,  
0.5458

■ 50.4435, 0.3004,  
0.5713

■ 52.5641, 0.3028,  
0.5143

■ 49.9153, 0.2999,  
0.5889

■ 54.2382, 0.3044,  
0.4796


■ 49.6621, 0.2998,  
0.5981


■ 56.3671, 0.3062,  
0.4442

■ 49.6370, 0.2997,  
0.5990


■ 58.9806, 0.3081,  
0.4101

■ 62.1059, 0.3098,  
0.3787

 65.7683, 0.3114,  
0.3506

 69.9915, 0.3129,  
0.3259

 74.7974, 0.3142,  
0.3044

 78.1076, 0.3145,  
0.2920

# Harmonies

## Analogous

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



51.3096, 0.4055, 0.5314



51.3096, 0.3014, 0.5458



51.3096, 0.2053, 0.4485

# Triad

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



51.3096, 0.3014, 0.5458



51.3096, 0.1432, 0.1720



51.3096, 0.5108, 0.3042

# Complementary

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



51.3096, 0.3014, 0.5458



23.7472, 0.3231, 0.1791

# 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.



51.3096, 0.4078, 0.2385



51.3096, 0.3014, 0.5458



51.3096, 0.1941, 0.1665

# Square

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



51.3096, 0.3014, 0.5458



51.3096, 0.1269, 0.2141



51.3096, 0.2856, 0.1898



51.3096, 0.5396, 0.3776



# Rectangle

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



51.3096, 0.3014, 0.5458



51.3096, 0.1602, 0.3524



51.3096, 0.2856, 0.1898



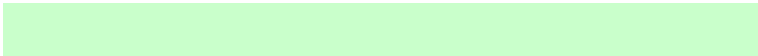
51.3096, 0.4828, 0.2811

# Sweetspot

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



51.3117, 0.3014, 0.5458



88.2883, 0.3094, 0.3864



64.4198, 0.4034, 0.4835



18.6239, 0.3089, 0.3951



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.



51.3117, 0.3014, 0.5458



72.3291, 0.3002, 0.5796



52.9015, 0.2681, 0.4390



14.6104, 0.3113, 0.3527



30.0483, 0.2996, 0.5987



1.9482, 0.2985, 0.5945



# Inverse Universe

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



23.7472, 0.3231, 0.1791



30.1631, 0.3246, 0.1643



20.7833, 0.4259, 0.2499



13.2702, 0.3141, 0.3064



11.8313, 0.3259, 0.1569



0.7679, 0.3250, 0.1564



# Previews

## White Background



This preview shows how the Yxy color 51.3096, 0.3014, 0.5458 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 51.3096, 0.3014, 0.5458 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

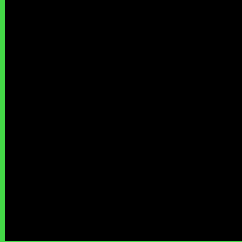
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.3096, 0.3014, 0.5458**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.3096, 0.3014, 0.5458.

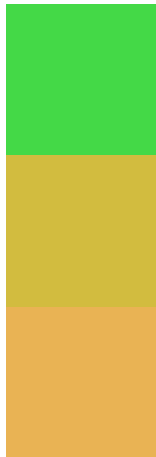


This preview shows how white text looks on a background with the Yxy color 51.3096, 0.3014, 0.5458.

# 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

51.3096, 0.3014, 0.5458

### Protanopia

50.0270, 0.4231, 0.4656

### Deuteranopia

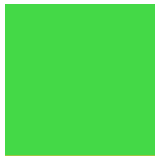
50.2039, 0.4390, 0.4295



## Tritanopia

51.0145, 0.2428, 0.3072

# Trichromacy



## Original Color

51.3096, 0.3014, 0.5458



## Protanomaly

48.5093, 0.3673, 0.5018



## Deuteranomaly

47.5887, 0.3775, 0.4764



## Tritanomaly

50.1555, 0.2656, 0.3933

# Monochromacy



## Original Color

51.3096, 0.3014, 0.5458



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

37.6065, 0.3079, 0.4145

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.3096, 0.3014, 0.5458 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(68, 217, 71)` looks like.

```
.text, #text, p{  
    color:rgb(68, 217, 71)  
}
```

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(68, 217, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 217, 71) }
```

## Border

The CSS property to change the border of an element to Yxy 51.3096, 0.3014, 0.5458 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(68, 217, 71) }
```

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

```
.border{ border-color:rgb(68, 217, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 217, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 217, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 217, 71);  
box-shadow:4px 4px 4px 4px rgb(68, 217,  
71) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.3096, 0.3014, 0.5458 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 217, 71) }
```

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

```
.background{ background-color: rgb(68, 217,  
71) }
```

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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