

# Converting Colors

$Y_{xy}(54.3425, 0.2940, 0.5554)$

Have a look what the booklet for  
Yxy(54.3425, 0.2940, 0.5554)  
contains.

<b>Yxy(54.2457, 0.2939, 0.5552)</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(54.2457, 0.2939, 0.5552)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2AE046
RGB	42, 224, 70
RGB Percent	16%, 88%, 27%
CMY	0.8352, 0.1216, 0.7257
CMYK	0.81, 0.00, 0.69, 0.12
HSL	129°, 75%, 52%
HSV	129°, 81%, 88%
XYZ	28.7154, 54.2457, 14.7437
YIQ	152.0260, -59.0380, -86.4780

# Conversions

## Conversions Part 2

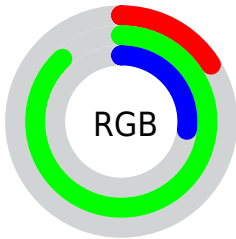
Format	Color
<a href="#">RYB</a>	<a href="#">42, 200, 224</a>
Decimal	<a href="#">2809926</a>
CIELab	<a href="#">78.60, -72.28, 60.41</a>
CIELCh	<a href="#">79, 94.198, 140.111</a>
Yxy	<a href="#">54.2457, 0.2939, 0.5552</a>
Android (android.graphics.Color)	<a href="#">4281000006 (0xFF2AE046)</a>
YUV	<a href="#">152.0260, -40.4388, -96.4928</a>
Hunter-Lab	<a href="#">73.6517, -59.2966, 39.6875</a>

# Details

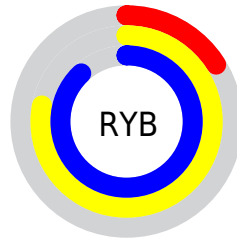
The Yxy color **54.2457, 0.2939, 0.5552** is a dark color, and the websafe version is hex **00CC33**. The color can be described as dark washed green. A complement of this color would be **21.4941, 0.3543, 0.1833**, and the grayscale version is **31.6102, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.0656, 0.3031, 0.4934**, and **27.6374, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **53.6973, 0.2952, 0.5757**, and if you desaturate by 10%, it is **55.1377, 0.2937, 0.5292**.

# Distribution



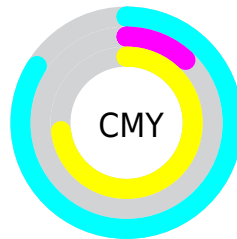
- Red (16%)
- Green (88%)
- Blue (27%)



- Red (16%)
- Yellow (78%)
- Blue (88%)



- Cyan (81%)
- Magenta (0%)
- Yellow (69%)
- Black (12%)




- Cyan (84%)
- Magenta (12%)
- Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 54.2457, 0.2939, 0.5552 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 54.2457, 0.2939, 0.5552 by changing the saturation by 10% instead.




 54.2457, 0.2939,  
0.5552

 54.2457, 0.2939,  
0.5552


403.0462, 0.3115,  
0.4360

 38.7981, 0.2867,  
0.5852

 96.4349, 0.3024,  
0.5113

 26.6027, 0.2759,  
0.6229


 123.9453, 0.3049,  
0.4949

 17.2751, 0.2589,  
0.6710


 156.2455, 0.3068,  
0.4811

 10.4308, 0.2329,  
0.7367

 193.7198, 0.3083,  
0.4694

 5.6855, 0.1877,  
0.8123

 236.7526, 0.3094,  
0.4593

 2.6548, 0.0679,  
0.9321

285.7284, 0.3102,

 0.9543, 0.0000,

0.4505

1.0000


341.0315, 0.3109,  
0.4428


 0.0000, 0.0000,  
0.0000


 54.2457, 0.2939,  
0.5552


 54.2457, 0.2939,  
0.5552


 53.6973, 0.2952,  
0.5757

 55.1377, 0.2937,  
0.5292


 53.4313, 0.2968,  
0.5883


 56.4115, 0.2945,  
0.4993


 58.1072, 0.2963,  
0.4678

 60.2581, 0.2989,  
0.4363

 62.8941, 0.3020,  
0.4063

 66.0426, 0.3054,  
0.3786

 69.7289, 0.3089,  
0.3536

 73.9765, 0.3123,  
0.3315

 78.8077, 0.3156,  
0.3122

# Harmonies

## Analogous

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



54.2457, 0.4017, 0.5417



54.2457, 0.2939, 0.5552



54.2457, 0.1961, 0.4476

# Triad

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



54.2457, 0.2939, 0.5552



54.2457, 0.1392, 0.1654



54.2457, 0.5233, 0.3055

# Complementary

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



54.2457, 0.2939, 0.5552



21.4941, 0.3543, 0.1833

# 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.



54.2457, 0.4182, 0.2379



54.2457, 0.2939, 0.5552



54.2457, 0.1931, 0.1616

# Square

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



54.2457, 0.2939, 0.5552



54.2457, 0.1209, 0.2058



54.2457, 0.2897, 0.1868



54.2457, 0.5477, 0.3807



# Rectangle

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



54.2457, 0.2939, 0.5552



54.2457, 0.1515, 0.3457



54.2457, 0.2897, 0.1868



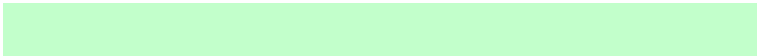
54.2457, 0.4954, 0.2819

# Sweetspot

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



54.2479, 0.2939, 0.5552



87.2840, 0.3044, 0.3864



65.3117, 0.3924, 0.5123



18.3565, 0.3032, 0.3963



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.



54.2479, 0.2939, 0.5552



71.7636, 0.2965, 0.5854



56.3552, 0.2559, 0.4243



15.3714, 0.3095, 0.3494



31.1102, 0.2963, 0.5866



2.1672, 0.2894, 0.5620



# Inverse Universe

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



21.4941, 0.3543, 0.1833



26.4373, 0.3633, 0.1784



18.5402, 0.5021, 0.2725



13.8976, 0.3161, 0.3094



11.3923, 0.3638, 0.1778

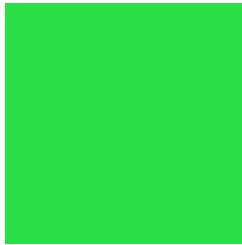


0.7996, 0.3561, 0.1735



# Previews

## White Background



This preview shows how the Yxy color 54.2457, 0.2939, 0.5552 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 54.2457, 0.2939, 0.5552 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 54.2457, 0.2939, 0.5552**

## **Background**



This preview shows how black text looks on a background with the Yxy color 54.2457, 0.2939, 0.5552.



This preview shows how white text looks on a background with the Yxy color 54.2457, 0.2939, 0.5552.

# 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

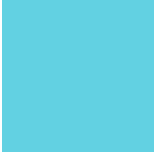
54.2457, 0.2939, 0.5552

### Protanopia

53.0867, 0.4248, 0.4673

### Deuteranopia

52.8578, 0.4411, 0.4307



## **Tritanopia**

53.6886, 0.2370, 0.3061

# Trichromacy



## Original Color

54.2457, 0.2939, 0.5552



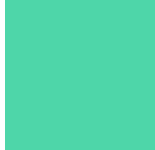
## Protanomaly

50.3397, 0.3610, 0.5092



## Deuteranomaly

49.1682, 0.3694, 0.4838



## Tritanomaly

52.5774, 0.2587, 0.3959

# Monochromacy



## Original Color

54.2457, 0.2939, 0.5552



## Achromatopsia

31.3989, 0.3127, 0.3290



## Achromatomaly

36.6907, 0.3004, 0.4221

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 54.2457, 0.2939, 0.5552 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(42, 224, 70)` looks like.

```
.text, #text, p{  
    color:rgb(42, 224, 70)  
}
```

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(42, 224, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 224, 70) }
```

## Border

The CSS property to change the border of an element to Yxy 54.2457, 0.2939, 0.5552 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(42, 224, 70) }
```

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

```
.border{ border-color:rgb(42, 224, 70) }
```

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

Here you see how a box with a 4 pixel rgb(42, 224, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 224, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 224, 70);  
box-shadow:4px 4px 4px 4px rgb(42, 224,  
70) }
```



# Background

The CSS property to change the background color of an element to Yxy 54.2457, 0.2939, 0.5552 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 224, 70) }
```

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

```
.background{ background-color: rgb(42, 224,  
70) }
```

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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