

# Converting Colors

$Y_{xy}(43.6979, 0.2841, 0.5428)$

Have a look what the booklet for  
Yxy(43.6979, 0.2841, 0.5428)  
contains.

<b>Yxy(43.6937, 0.2842, 0.5432)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(43.6937, 0.2842, 0.5432)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CC4B
RGB	0, 204, 75
RGB Percent	0%, 80%, 29%
CMY	1.0000, 0.2000, 0.7059
CMYK	1.00, 0.00, 0.63, 0.20
HSL	142°, 100%, 40%
HSV	142°, 100%, 80%
XYZ	22.8604, 43.6937, 13.8835
YIQ	128.2980, -80.1750, -83.3670

# Conversions

## Conversions Part 2

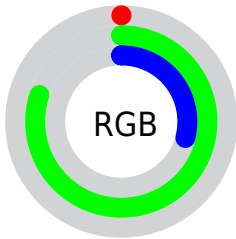
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 149, 204
Decimal	52299
CIELab	72.02, -68.46, 51.10
CIELCh	72, 85.432, 143.264
Yxy	43.6937, 0.2842, 0.5432
Android (android.graphics.Color)	4278242379 (0xFF00CC4B)
YUV	128.2980, -26.2759, -112.5173
Hunter-Lab	66.1012, -53.9449, 33.8179

# Details

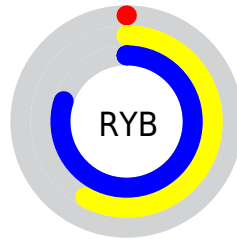
The Yxy color **43.6937, 0.2842, 0.5432** is a dark color, and the websafe version is hex **00CC33**. The color can be described as dark washed green. A complement of this color would be **14.4237, 0.4419, 0.2208**, and the grayscale version is **21.8105, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.9621, 0.2940, 0.4935**, and **21.2172, 0.2974, 0.5906** is the 20% darker color. If you saturate the color by 10%, you get **43.6970, 0.2842, 0.5432**, and if you desaturate by 10%, it is **44.0449, 0.2810, 0.5234**.

# Distribution



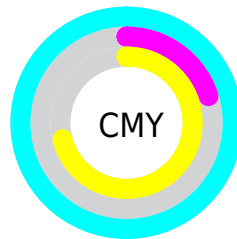
- Red (0%)
- Green (80%)
- Blue (29%)



- Red (0%)
- Yellow (58%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (63%)
- Black (20%)




- Cyan (100%)
- Magenta (20%)
- Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 43.6937, 0.2842, 0.5432 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 43.6937, 0.2842, 0.5432 by changing the saturation by 10% instead.





 43.6937, 0.2842,  
0.5432

 43.6937, 0.2842,  
0.5432


361.4569, 0.3057,  
0.4258


 30.4298, 0.2760,  
0.5748


 80.7566, 0.2941,  
0.4985

 20.1650, 0.2636,  
0.6159


 105.3244, 0.2971,  
0.4823


 12.5151, 0.2441,  
0.6704


 134.4290, 0.2995,  
0.4688

 7.0955, 0.2150,  
0.7545

 168.4547, 0.3013,  
0.4575

 3.5219, 0.1550,  
0.8450

 207.7860, 0.3028,  
0.4478

 1.4099, 0.0000,  
1.0000

252.8071, 0.3040,

 0.2240, 0.0000,

0.4394

1.0000

303.9026, 0.3049,  
0.4322

■ 0.0000, 0.0000,  
0.0000

■ 43.6937, 0.2842,  
0.5432

■ 43.6937, 0.2842,  
0.5432

■ 43.6970, 0.2842,  
0.5432

■ 44.0449, 0.2810,  
0.5234

■ 44.5920, 0.2791,  
0.5011

■ 45.3956, 0.2791,  
0.4771

■ 46.4870, 0.2808,  
0.4525

■ 47.8928, 0.2840,  
0.4282

■ 49.6364, 0.2885,  
0.4048

■ 51.7390, 0.2940,  
0.3830

■ 54.2199, 0.3000,  
0.3630

■ 57.0971, 0.3063,  
0.3450

# Harmonies

## Analogous

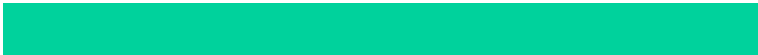
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



43.6937, 0.3904, 0.5431



43.6937, 0.2842, 0.5432



43.6937, 0.1907, 0.4288

# Triad

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



43.6937, 0.2842, 0.5432



43.6937, 0.1461, 0.1666



43.6937, 0.5249, 0.3142

# Complementary

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



43.6937, 0.2842, 0.5432



14.4237, 0.4419, 0.2208

# 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.



43.6937, 0.4289, 0.2463



43.6937, 0.2842, 0.5432



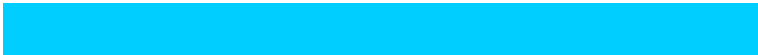
43.6937, 0.2035, 0.1658

# Square

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



43.6937, 0.2842, 0.5432



43.6937, 0.1246, 0.2023



43.6937, 0.3028, 0.1936



43.6937, 0.5406, 0.3893

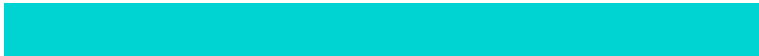


# Rectangle

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



43.6937, 0.2842, 0.5432



43.6937, 0.1498, 0.3311



43.6937, 0.3028, 0.1936



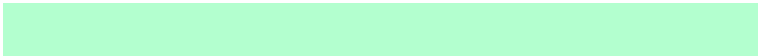
43.6937, 0.5005, 0.2906

# Sweetspot

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



43.6970, 0.2842, 0.5432



85.5307, 0.2937, 0.3838



47.8722, 0.3560, 0.5555



17.9750, 0.2913, 0.3930



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.



43.6970, 0.2842, 0.5432



72.3235, 0.2849, 0.5455



46.3557, 0.2366, 0.3716



12.6040, 0.3067, 0.3440



27.5178, 0.2835, 0.5406



1.4341, 0.2722, 0.5000



# Inverse Universe

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



14.4237, 0.4419, 0.2208



23.8425, 0.4438, 0.2219



12.9184, 0.6238, 0.3210



11.3310, 0.3193, 0.3144



9.0962, 0.4397, 0.2196

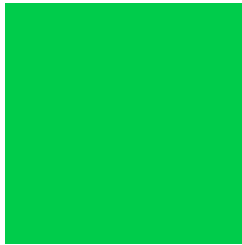


0.4836, 0.4106, 0.2036



# Previews

## White Background



This preview shows how the Yxy color 43.6937, 0.2842, 0.5432 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 43.6937, 0.2842, 0.5432 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 43.6937, 0.2842, 0.5432**

## Background



This preview shows how black text looks on a background with the Yxy color 43.6937, 0.2842, 0.5432.



This preview shows how white text looks on a background with the Yxy color 43.6937, 0.2842, 0.5432.

# 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

43.6937, 0.2842, 0.5432

### Protanopia

42.6673, 0.4177, 0.4587

### Deuteranopia

42.9082, 0.4317, 0.4227



## Tritanopia

43.5604, 0.2340, 0.3054

# Trichromacy



## Original Color

43.6937, 0.2842, 0.5432



## Protanomaly

39.8451, 0.3420, 0.5051



## Deuteranomaly

38.5701, 0.3491, 0.4781



## Tritanomaly

42.7131, 0.2498, 0.3893

# Monochromacy



## Original Color

43.6937, 0.2842, 0.5432



## Achromatopsia

21.5861, 0.3127, 0.3290



## Achromatomaly

26.6304, 0.2849, 0.4205

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 43.6937, 0.2842, 0.5432 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(0, 204, 75)` looks like.

```
.text, #text, p{  
    color:rgb(0, 204, 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(0, 204, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 204, 75) }
```

## Border

The CSS property to change the border of an element to Yxy 43.6937, 0.2842, 0.5432 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(0, 204, 75) }
```

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

```
.border{ border-color:rgb(0, 204, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 204, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 204, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 204, 75);  
box-shadow:4px 4px 4px 4px rgb(0, 204, 75)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 43.6937, 0.2842, 0.5432 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 204, 75) }
```

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

```
.background{ background-color: rgb(0, 204,  
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