

# Converting Colors

$Y_{xy}(66.9200, 0.2843, 0.5205)$

Have a look what the booklet for  
Yxy(66.9200, 0.2843, 0.5205)  
contains.

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# Color

**Yxy(67.0405, 0.2842, 0.5202)**

# Conversions

## Conversions Part 1

Format	Color
Hex	31F56C
RGB	49, 245, 108
RGB Percent	19%, 96%, 42%
CMY	0.8080, 0.0392, 0.5763
CMYK	0.80, 0.00, 0.56, 0.04
HSL	138°, 91%, 58%
HSV	138°, 80%, 96%
XYZ	36.6261, 67.0405, 25.2078
YIQ	170.7780, -72.8390, -84.1590

# Conversions

## Conversions Part 2

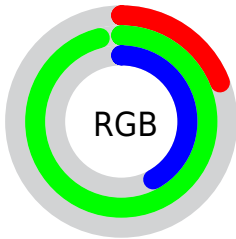
Format	Color
<b>RYB</b>	49, 200, 245
Decimal	3274092
CIELab	85.52, -73.76, 52.24
CIELCh	86, 90.380, 144.693
Yxy	67.0405, 0.2842, 0.5202
Android (android.graphics.Color)	4281464172 (0xFF31F56C)
YUV	170.7780, -30.9496, -106.7993
Hunter-Lab	81.8783, -63.4396, 39.0612

# Details

The Yxy color **67.0405, 0.2842, 0.5202** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed spring green. A complement of this color would be **25.1491, 0.3918, 0.2070**, and the grayscale version is **40.7911, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.7178, 0.2899, 0.4458**, and **35.8070, 0.2895, 0.5624** is the 20% darker color. If you saturate the color by 10%, you get **66.2615, 0.2862, 0.5430**, and if you desaturate by 10%, it is **68.2270, 0.2838, 0.4946**.

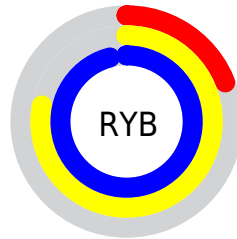
# Distribution



Red (19%)

Green (96%)

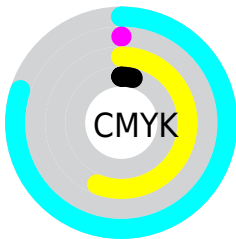
Blue (42%)



Red (19%)

Yellow (78%)

Blue (96%)

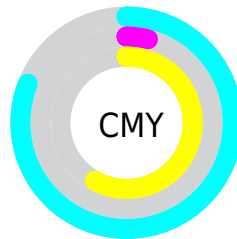


Cyan (80%)

Magenta (0%)

Yellow (56%)

Black (4%)



Cyan (81%)

Magenta (4%)


Yellow (58%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.0405, 0.2842, 0.5202 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 67.0405, 0.2842, 0.5202 by changing the saturation by 10% instead.





 67.0405, 0.2842,  
0.5202

 67.0405, 0.2842,  
0.5202


450.0889, 0.3032,  
0.4224


 49.1175, 0.2781,  
0.5444


 114.9784, 0.2922,  
0.4846


 34.7127, 0.2696,  
0.5751


 145.7622, 0.2948,  
0.4712

 23.4417, 0.2572,  
0.6146


 181.6017, 0.2970,  
0.4599

 14.9200, 0.2384,  
0.6667


 222.8813, 0.2987,  
0.4502

 8.7632, 0.2090,  
0.7380

269.9855, 0.3001,  
0.4419

 4.5871, 0.1619,  
0.8381

323.2985, 0.3013,

 2.0071, 0.0000,

0.4346

1.0000

383.2049, 0.3023,  
0.4281

■ 0.6116, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 67.0405, 0.2842,  
0.5202

■ 67.0405, 0.2842,  
0.5202

■ 66.2615, 0.2862,  
0.5430

■ 68.2270, 0.2838,  
0.4946

■ 65.7997, 0.2895,  
0.5622


■ 69.8636, 0.2851,  
0.4676


■ 71.9962, 0.2878,  
0.4405


■ 74.6624, 0.2917,  
0.4143

 77.8964, 0.2964,  
0.3897

 81.7294, 0.3017,  
0.3672

 86.1902, 0.3071,  
0.3470

 91.3058, 0.3127,  
0.3290

 93.7875, 0.3132,  
0.3194

# Harmonies

## Analogous

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



67.0405, 0.3840, 0.5297



67.0405, 0.2842, 0.5202



67.0405, 0.1971, 0.4138

# Triad

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



67.0405, 0.2842, 0.5202



67.0405, 0.1580, 0.1762



67.0405, 0.5107, 0.3208

# Complementary

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



67.0405, 0.2842, 0.5202



25.1491, 0.3918, 0.2070

# 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.



67.0405, 0.4251, 0.2552



67.0405, 0.2842, 0.5202



67.0405, 0.2148, 0.1763

# Square

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



67.0405, 0.2842, 0.5202



67.0405, 0.1359, 0.2094



67.0405, 0.3095, 0.2041



67.0405, 0.5240, 0.3931



# Rectangle

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



67.0405, 0.2842, 0.5202



67.0405, 0.1591, 0.3266



67.0405, 0.3095, 0.2041



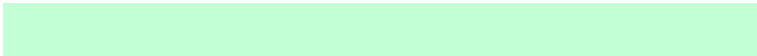
67.0405, 0.4891, 0.2980

# Sweetspot

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



67.0432, 0.2842, 0.5202



87.7286, 0.2995, 0.3760



75.9923, 0.3709, 0.5268



18.4610, 0.2976, 0.3841



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.



67.0432, 0.2842, 0.5202



72.2255, 0.2882, 0.5553



70.4060, 0.2435, 0.3807



18.5542, 0.3074, 0.3460



35.4675, 0.2887, 0.5593



3.1347, 0.2818, 0.5346



# Inverse Universe

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



25.1491, 0.3918, 0.2070



24.8270, 0.4124, 0.2059



22.3145, 0.5456, 0.3004



16.6782, 0.3184, 0.3126



12.0710, 0.4152, 0.2061

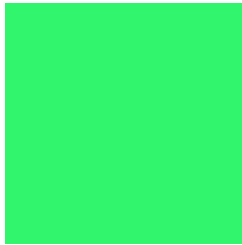


1.0791, 0.4005, 0.1980



# Previews

## White Background



This preview shows how the Yxy color 67.0405, 0.2842, 0.5202 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 67.0405, 0.2842, 0.5202 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

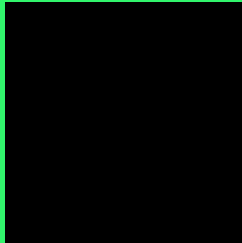
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.0405, 0.2842, 0.5202**

## Background



This preview shows how black text looks on a background with the Yxy color 67.0405, 0.2842, 0.5202.

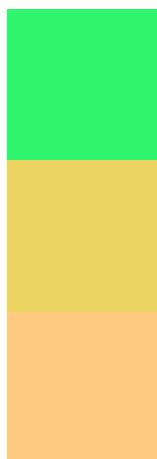


This preview shows how white text looks on a background with the Yxy color 67.0405, 0.2842, 0.5202.

# 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

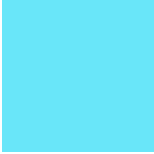
67.0405, 0.2842, 0.5202

### Protanopia

65.6122, 0.4096, 0.4482

### Deuteranopia

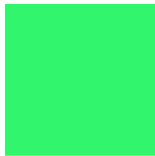
65.5569, 0.4108, 0.4046



## **Tritanopia**

66.4364, 0.2356, 0.3056

# Trichromacy



## Original Color

67.0405, 0.2842, 0.5202



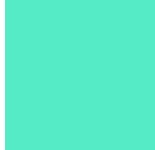
## Protanomaly

62.4664, 0.3473, 0.4827



## Deuteranomaly

61.2266, 0.3482, 0.4503



## Tritanomaly

65.4252, 0.2526, 0.3786

# Monochromacy



## Original Color

67.0405, 0.2842, 0.5202



## Achromatopsia

40.7240, 0.3127, 0.3290



## Achromatomaly

47.0383, 0.2940, 0.4034

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.0405, 0.2842, 0.5202 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(49, 245, 108)` looks like.

```
.text, #text, p{  
    color:rgb(49, 245, 108)  
}
```

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(49, 245, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 245, 108) }
```

## Border

The CSS property to change the border of an element to Yxy 67.0405, 0.2842, 0.5202 is called "border". The border property can be set on classes, ids or directly on the HTML element.

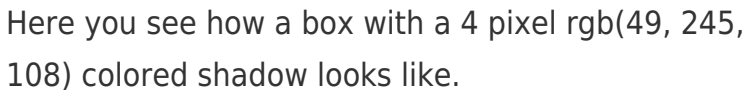
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(49, 245, 108) }
```

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

```
.border{ border-color:rgb(49, 245, 108) }
```

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



Here you see how a box with a 4 pixel `rgb(49, 245, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 245, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 245, 108);  
box-shadow:4px 4px 4px 4px rgb(49, 245,  
108) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.0405, 0.2842, 0.5202 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 245, 108) }
```

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

```
.background{ background-color: rgb(49, 245,  
108) }
```

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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